

1918

BICYCLE ACCESSORIES



*"The Interests of the Dealers
Are Our Interests."*

WHOLESALE ONLY

WESTON
ONT

TORONTO

MONTREAL

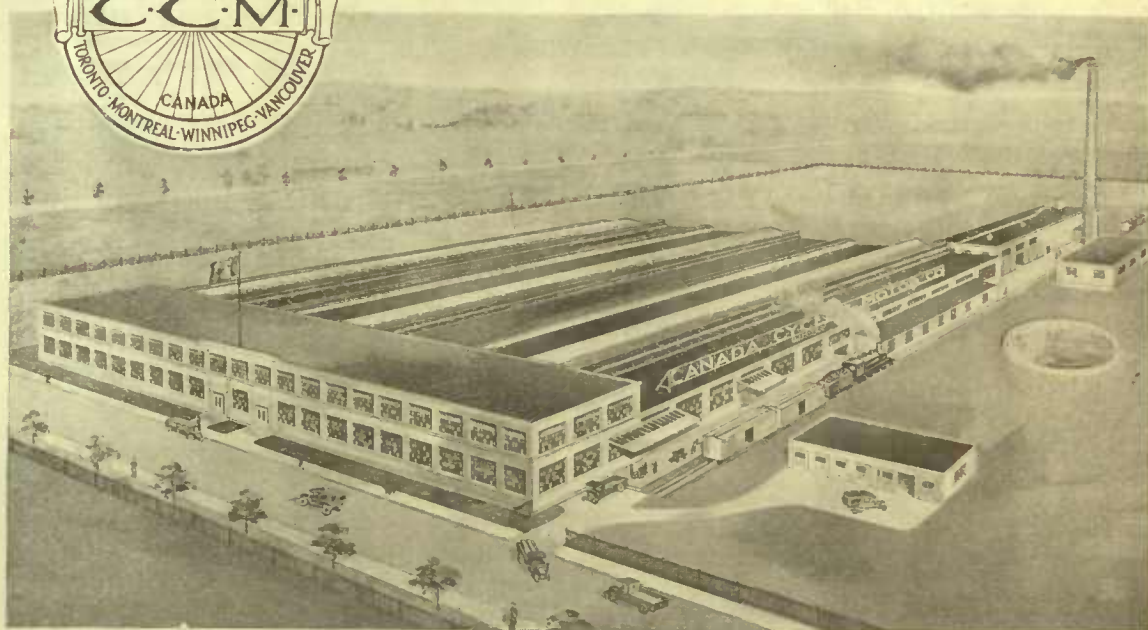
WINNIPEG

VANCOUVER



BICYCLE ACCESSORIES AND REPAIR SUPPLIES

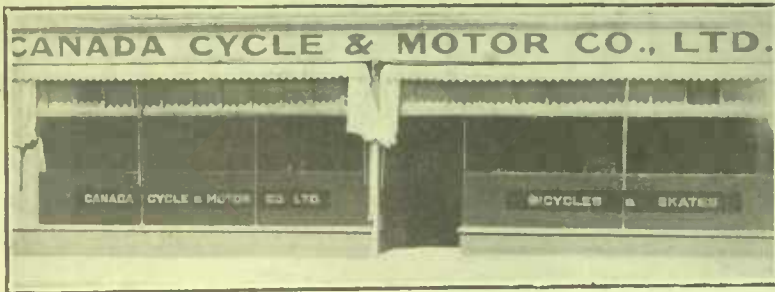
BICYCLES
MOTORCYCLE ACCESSORIES
MOTOR ACCESSORIES



Since the above photograph was taken a large addition has been made to this Weston plant. Total floor space is 110,000 square feet.

Canada Cycle and Motor Company
LIMITED

MONTREAL TORONTO WESTON WINNIPEG VANCOUVER



Canada Cycle and Motor Co., Limited, Vancouver, B.C.
Area, 9,000 square feet.

WHEN ORDERING

PLEASE write plainly, giving catalogue numbers and descriptions. Always state how you wish us to ship, either by freight, express or parcel post. Unless these instructions are given we reserve the right to use our own judgment in making shipment.

PRICES

F.O.B. Factory or nearest Branch. All prices in this catalogue are based on delivery as follows:

Provinces of Quebec, New Brunswick, Nova Scotia and Prince Edward Island, F.O.B. Montreal.

Province of Ontario, as far West as Fort William, F.O.B. Weston, Ont.

Points in Ontario West of Fort William, also Provinces of Manitoba, Saskatchewan and Alberta, F.O.B. Winnipeg.

Province of British Columbia, F.O.B. Vancouver.

TERMS

15 days from date of shipment. Strictly net. Interest at 7% charged on all overdue accounts.

Collection by Bank Draft unless otherwise arranged.

All prices are subject to change without notice.

GUARANTEE

We endeavour to represent each article catalogued exactly as it is.

All goods of our own manufacture, or which bear our guarantee, are subject to replacement should they prove defective. We will pay transportation charges one way on defective goods returned for replacement.



Canada Cycle and Motor Co., Limited, Montreal

Total of 15,209 square feet occupied by Montreal Branch.

BACK ORDERS

We endeavour at all times to keep a stock of every article listed in this catalogue, but in these War times, with shortages of material and labor and delays in transportation, it may occasionally happen that we are temporarily out of stock on certain items.

Any such items which we back order will be sent forward with the next goods, or if there is sufficient weight to make a separate shipment they will be forwarded as soon as received.

Kindly note that we do not prepay transportation charges on back orders.

PACKING CHARGES

Packing cases are charged at cost, and we will gladly credit any cases which are returned to us, charges prepaid.

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SHORTAGE AND DAMAGE CLAIMS

We endeavour to pack carefully. Any claims for shortages should be made within five days from receipt of goods.

If shipment is delivered in a damaged condition by the Transportation Company, do not sign for shipment and make a verbal claim, as in this way you give the Transportation Company a clear receipt. Before signing, write on the Transportation Company's receipt that the shipment is in a damaged condition. Then place your claim with the Transportation Company for the amount of damage and we will be glad to render every assistance possible in helping to collect your claim.

FIRST CLASS FREIGHT RATE ON BICYCLE TIRES

Bicycle tires are entitled to first class freight rate, but are frequently charged at $1\frac{1}{2}$ times first class rate. This is because tires other than Bicycle take the higher rate in the classification. Bicycle tires, however, are entitled to a rating of first class.

Please check over freight bills carefully and apply for refund in case of overcharge.

RETURN OF GOODS

Goods properly shipped on bona fide orders will not be accepted for credit, unless arrangement is first made with us for return of same and will be subject to discount unless received in as good condition as when shipped from here.

Goods made to order or ordered specially will not be accepted for credit.

PUT YOUR NAME ON RETURN GOODS

When returning goods, please make sure that your name is plainly marked on the return tag. Also write us the day the goods are returned, giving full particulars. We frequently have a number of shipments of returned goods on hand with nothing whatever to indicate from whom they came.

TELEGRAPH AND TELEPHONE CHARGES

We cannot accept collect telephone or telegraph charges. If through some error of ours a telegram or telephone conversation is necessary we will issue credit for the cost of the message in the regular way.

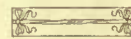


Canada Cycle and Motor
Co., Limited
Winnipeg, Manitoba

Area, 10,000 square feet.

WAR CLAUSE

All orders and contracts are accepted only contingent on strikes, accidents and delays of carriers, and subject to change in price or cancellation (with or without notice) depending upon War conditions or causes beyond the control of the Canada Cycle and Motor Company, Limited.



Your Interests are Ours

THE constant aim of this Company is to give the very best service possible.

We are satisfied when everything is right—but not until then.

We value the orders of small dealers, and give them the same careful attention as large orders. A very large proportion of our business is made up of such comparatively small orders.

“The dealer's interests are our interests.”

Announcing the 1918 Models of C. C. M. BICYCLES

ON the following pages we illustrate and describe the various 1918 models in the principal C.C.M. nameplate lines.

We introduce this year two new models, a sturdy Road Racer, Model "T," and a Motorbike type, Model "W."

These are handsomely finished in rich dark green with Gold Sunburst Head and gold stripe, or, as an option, in Road Cart Red with Green Sunburst Head and green stripe.

Other models are finished in rich Glossy Black enamel with the exception of the Red Bird, which is finished in Maroon.

The following additional colors and stripings may be had at a reasonable additional cost:

- No. 1—Black with Green and Gold stripe.
- No. 2—Black with a Red Head.
- No. 3—Maroon only
- No. 4—Maroon and Gold stripe.
- No. 5—French Grey with Green and Red stripe.
- No. 6—French Grey with Blue Sunburst Head, Blue and Gold stripe.
- No. 7—French Grey with Red Sunburst Head, Red with Gold stripe.
- No. 8—Road Cart Red with Green stripe.
- No. 9—Green with a Gold stripe.
- No. 10—Green with a Gold Sunburst Head and Gold stripe.

The only difference between Grade "A" and Grade "B" models is in the equipment. The frames and every other part of the bicycle are exactly the same in both models.

When shipping one bicycle we recommend that it go forward by Express, as on this weight the Express charge is usually little, if any, higher than the Freight charge would be, and the Express service of course is much quicker.

Agencies: Each C.C.M. nameplate bicycle is sold only to one Agent in each District. Write for dealers' prices if they are not already represented in your locality.

Guaranteed Massey Bicycles



Massey Men's Roadster, model 356, 20", 22", 24" or 26" frame. Retail list, net ..

Massey Ladies' Roadster, model 355, 20" or 22" frame. Retail list, net

Massey Men's Roadster, model 358 ("B" grade equipment), 20", 22", 24" or 26" frame. Retail list, net

Massey Ladies' Roadster, model 357 ("B" grade equipment), 20" or 22" frame. Retail list, net

Massey Juvenile, Boys' or Girls', 17 1/4" frame. Retail list, net

Massey Racer, model "T," 20", 22" or 24" frame. Retail list, net

Massey Motor Blke, model "W," 22" frame. Retail list, net .



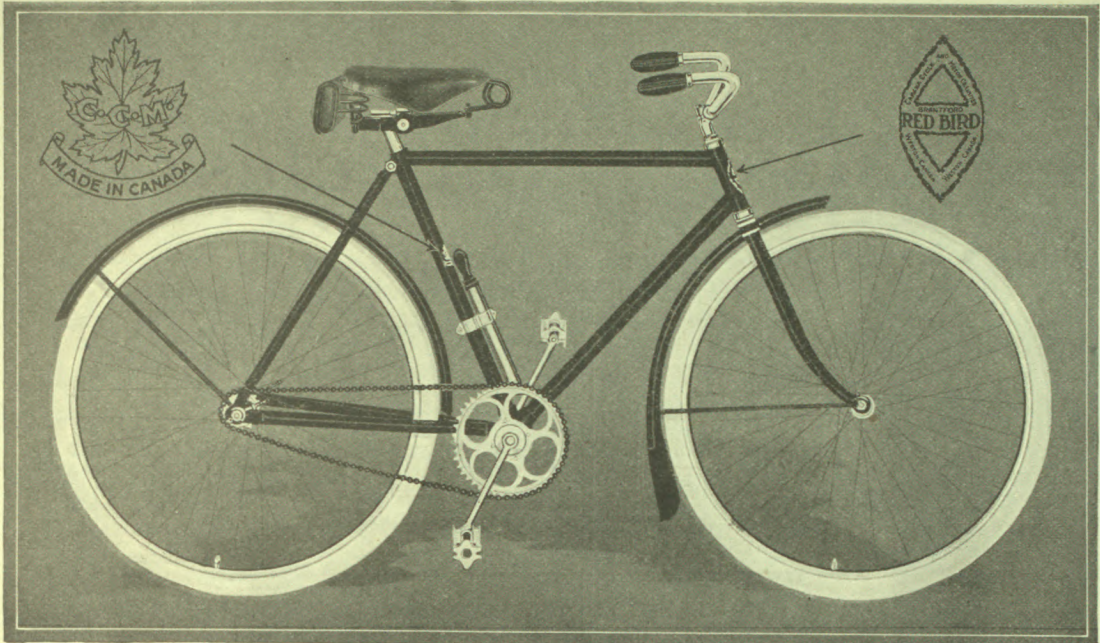
The Express charge on one bicycle is not usually in excess of the Freight charge. We recommend having one bicycle forwarded by Express in all cases.

NOTE.—These bicycles are sold only to one Agent in each District. Write for dealers' prices if they are not being sold in your Locality.

Columbia, Gendron and Ivanhoe Bicycles are also supplied in a similar range of models.



"The Dealers' Interests Are Our Interests."



Guaranteed Brantford Red Bird Bicycles



- Red Bird Men's Roadster, model 556, 20", 22", 24" or 26" frame. Retail list, net..
- Red Bird Ladies' Roadster, model 555, 20" or 22" frame. Retail list, net
- Red Bird Men's Roadster, model 558 ("B" grade equipment), 20", 22", 24" or 26" frame. Retail list, net
- Red Bird Ladies' Roadster, model 557 ("B" grade equipment), 20" or 22" frame. Retail list, net
- Red Bird Racer, model "T," 20", 22" or 24" frame. Retail list, net
- Red Bird Motor Bike, model "W," 22" frame. Retail list, net
- Red Bird Juvenile Boys' or Girls', 17 1/4" frame. Retail list, net



The Express charge on one bicycle is not usually in excess of the Freight charge. We recommend having one bicycle forwarded by Express in all cases.

NOTE.—These bicycles are sold only to one Agent in each District. Write for dealers' prices if they are not being sold in your Locality.

Columbia, Gendron and Ivanhoe Bicycles are also supplied in a similar range of models.

Guaranteed "Perfect" Bicycles



- Perfect Men's Roadster, model 656, 20", 22", 24" or 26" frame. Retail list, net
- Perfect Ladies' Roadster, model 655, 20" or 22" frame. Retail list, net . . .
- Perfect Men's Roadster, model 658 ("B" grade equipment), 20", 22", 24" or 26" frame. Retail list, net
- Perfect Ladies' Roadster, model 657 ("B" grade equipment), 20" or 22" frame. Retail list, net
- Perfect Juvenile, Boys' or Girls', 17 1/4" frame. Retail list, net
- Perfect Motor Bike, model "W," 22" frame. Retail list, net
- Perfect Racer, model "T," 20", 22" or 24" frame. Retail list, net



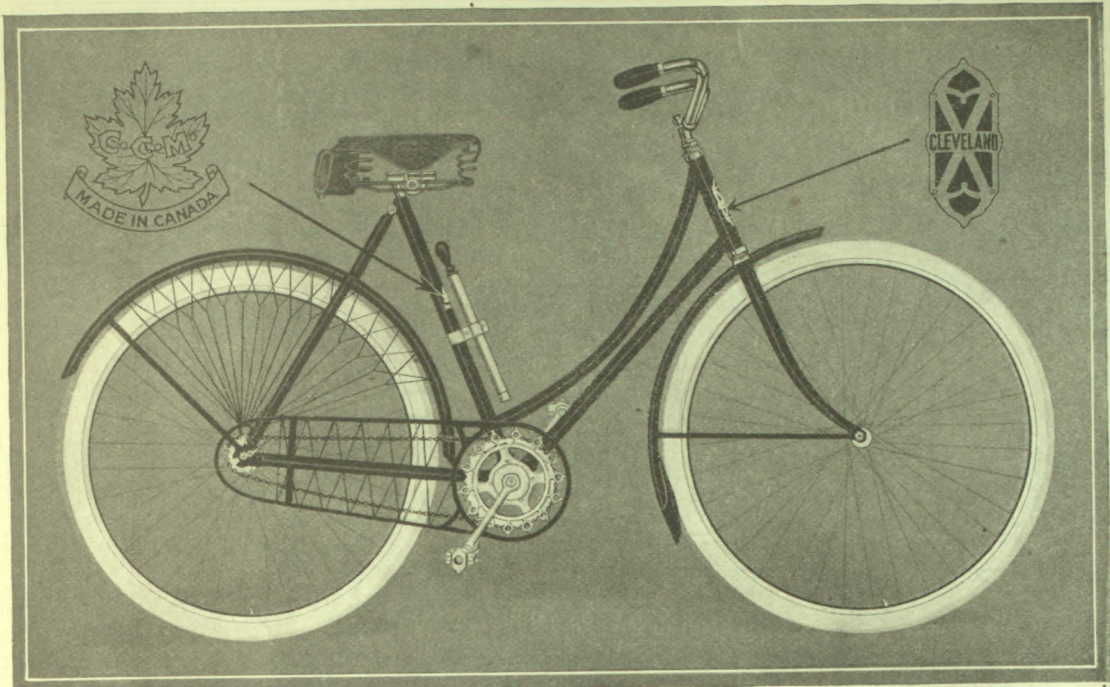
The Express charge on one bicycle is not usually in excess of the Freight charge. We recommend having one bicycle forwarded by Express in all cases.

NOTE.—These bicycles are sold only to one Agent in each District. Write for dealers' prices if they are not being sold in your Locality.

Columbia, Gendron and Ivanhoe Bicycles are also supplied in a similar range of models.



"The Dealers' Interests Are Our Interests."



Guaranteed Cleveland Bicycles



- Cleveland Men's Roadster, model 456, 20", 22", 24" or 26" frame.** Retail list, net ..
- Cleveland Ladies' Roadster, model 455, 20" or 22" frame.** Retail list, net
- Cleveland Men's Roadster, model 458 ("B" grade equipment), 20", 22" or 26" frame.** Retail list, net
- Cleveland Ladies' Roadster, model 457 ("B" grade equipment), 20" or 22" frame.** Retail list, net
- Cleveland Juvenile, Boys' or Girls', 17 1/4" frame.** Retail list, net
- Cleveland Racer, model "T," 20", 22" or 24" frame.** Retail list, net
- Cleveland Motor Bike, model "W," 22" frame.** Retail list, net



The Express charge on one bicycle is not usually in excess of the Freight charge. We recommend having one bicycle forwarded by Express in all cases.

NOTE.—These bicycles are sold only to one Agent in each District. Write for dealers' prices if they are not being sold in your Locality.

Columbia, Gendron and Ivanhoe Bicycles are also supplied in a similar range of models.

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Repairs Price List

1918 Prices for Enamelling and Nickelling

When Bicycle Complete is Delivered to Us.

	C.C.M. make.	Other makes.
To be enamelled black, including Guards and Rims refinished, all nickelled parts re-plated, supplying new spokes and grips	\$24.90	\$29.80
Colors other than black, extra	1.40	1.70
Striping extra	1.40	1.70
To be enamelled black and all parts re-plated, with the exception of hubs and spokes	15.80	19.20
To be enamelled black	9.10	11.05
To be enamelled in colors other than black	10.50	12.75
To be enamelled black with striping...	10.50	12.75
To be enamelled in color and striped..	11.90	14.45

Note.—Any parts which we find badly worn when overhauling bicycles will be replaced by us, unless otherwise advised, and charged for at trade prices.

Handle Bars and Stem to be nickelled and new Grips supplied	\$2.30	\$2.30
Handle Bars and Stem to be nickelled, without new Grip supplied	1.80	1.80
Cranks nickelled	1.80	1.80
Hubs complete, nickelled and new spokes fitted	7.40	7.40
Front Sprockets	1.40	1.40
Nickelling all parts, less hubs and spokes, when bicycle complete is delivered to us	12.60	15.30
Nickelling all parts when parts only are delivered to us	8.40	10.20
Nickelling all parts (including hubs) and fitting new spokes, when bicycle complete is delivered to us.....	19.00	22.70

When Frame and Fork or Rims only are Delivered to Us.

Frame and Fork to be enamelled	\$2.50	\$2.50
Frame and Fork to be enamelled in color other than black	3.50	3.50
Striping on black or colors, extra ...	1.00	1.00
Fork enamelled	1.00	1.00
Rims scraped and enamelled	2.10	2.60

1918 Prices for Frame and Fork Repairing

For Frame to be cut down and Frame and Fork enamelled black	\$11.90	\$14.50
For one Tube in diamond frame and enamelling Frame and Forks black...	9.70	10.40
For two Tubes in diamond frame and re-enamelling Frame and Forks black	10.40	12.20
For three Tubes in diamond frame and re-enamelling Frame and Fork black	12.80	14.90
For one rear upper or lower Tube and re-enamelling Frame and Fork black...	9.20	11.00
For two rear upper or lower Tubes and re-enamelling Frame and Fork black	10.70	12.70
For three rear upper or lower Tubes and re-enamelling Frame and Fork black.	12.90	15.20

	C.C.M. make.	Other makes.
For four rear upper or lower Tubes and re-enamelling Frame and Forks black.	\$14.40	\$16.80
For Frame head and re-enamelling Frame and Fork black	9.90	11.70
Saddle Bracket and re-enamelling Frame and Fork black	8.80	10.70
Frame truing	From \$1.40 to 6.00	
For Frame Head upper or lower connection and re-enamelling Frame and Fork black	8.15	10.15
For curved bar in ladies' frame and re-enamelling Frame and Fork black..	9.00	10.90
For Frame Head upper and lower connection and re-enamelling Frame and Fork black	9.60	12.10
For crank bracket and re-enamelling Frame and Fork black	12.50	15.00

Note.—The above prices apply when Frame and Fork only are delivered to us. If complete bicycle is sent in, an additional charge of \$4.20 for C.C.M. bicycles, and \$5.10 for other makes, will be made to cover the cost of tearing down and setting up same.

For new Fork Stem and re-enamelling Fork black	\$4.10	\$4.90
For new Fork Stem and re-enamelling black and nickelling Crown	4.80	5.80
For new Fork Stem and re-enamelling black and nickelling Crown and tips.	6.20	7.40
For splicing Fork Stem	2.80	3.10
For one Fork side and re-enamelling black	4.00	4.70
For one Fork side and re-enamelling black and nickelling Crown	4.70	5.55
For one Fork side and re-enamelling black and nickelling Crown and tips	6.40	7.60
For two Fork sides and re-enamelling black	5.10	5.90
For two Fork sides and re-enamelling black and nickelling Crown	5.30	6.30
For two Fork sides and re-enamelling black and nickelling Crown and tips.	7.20	8.40
For one Fork tip and re-enamelling black	2.30	2.80
For one Fork tip and re-enamelling black and nickelling Crown	3.00	3.60
For one Fork tip and re-enamelling black and nickelling Crown and tips.	3.70	4.50
For two Fork tips and re-enamelling black	3.20	3.80
For two Fork tips and re-enamelling black and nickelling Crown	3.90	4.70
For two Fork tips and re-enamelling black and re-nickelling Crown and tips	4.60	5.50
For one Fork Crown and re-enamelling black	4.30	5.30
For one Fork Crown and re-enamelling black and nickelling Crown	5.20	6.10
For one Fork Crown and re-enamelling black and nickelling Crown and tips..	6.20	7.40
Fork Truing	From \$1.40 to 3.40	

SPECIAL NOTICE

We cannot possibly handle repairs or returns without a letter of instructions, as to take a chance might cause annoyance as well as expense.

"The Dealers' Interests Are Our Interests."

Parts Price List

Always Give Model Number of Bicycle When Ordering

Cleveland, Massey, Brantford Red Bird, Perfect, Gendron, Ivanhoe and Columbia Bicycles using "C.C.M." Hangers, 1916, and Model "T" Hangers, 1917-18 Also Hanger Parts Previous to 1916.

CLEVELAND CRANK BRACKET PARTS.

Models No. 114, 115, 123, 124, 126, 127, 128, 133, 134, 135, 136, 137, 143, 144, 145, 146, 147, 148, 402, 403, 404, 405, 406, 412, 414, 415, 416, 422, 433, 434, 435 and 436, fitted with C.C.M. Hanger.

Models No. 455, 456, 457 and 458, fitted with "T" Hanger.

Crank Bracket Axle with stationary cone, assembled	Each	\$2.60
Crank Bracket Stationary Cone	Each	0.50
Crank Bracket Adjusting Cone	Each	0.50
Crank Bracket Ballcages (No. 322), less balls, 5/16 balls used	Doz.	2.08
Crank Bracket Adjusting Cone Locknut	Each	0.24
Crank Bracket Adjusting Cone Lockwasher	Each	0.04
Cranks, right	Each	1.70
Cranks, left	Each	1.70
Crank Jamb Nut, right	Each	.10
Crank Jamb Nut, left	Each	.10
Sprocket (state what pitch and number of teeth).	Each	2.50
Sprocket Bolt (four used)	Doz.	.48
Sprocket Bolt Nuts (four used)	Doz.	.24
Steel Balls, 1/8" used (7 balls used in each cage)	Gross	2.40
Coupler and Ball Case (solid), used on Models 433, 434, 435, 436	Each	3.00
Ballcase Collar, used on Models 433, 434, 435, 436	Each	.04
Ballcase Cup (press-in style), used on Models from 114 to 422	Each	.50
Right Cup (black finish), used 1917-8 Model T.	Each	.70
Left Cup (nickel-plated finish), 1917-8 Model T.	Each	.70
*Crank Bracket Clamp Bolt	Each	.20
*Crank Bracket Clamp Nut	Each	.10

*Used on all Models except 455, 456, 457 and 458.

BRANTFORD CRANK BRACKET PARTS.

Models No. 66A, 66B, 77A, 77B, 68A, 68B, 69A, 69B, 70A, 70B, 71A, 504, 506, 514, 516 and 522, fitted with old Brantford Crank Hangers.

Crank, right	Each	\$3.00
Crank, left	Each	2.50
Crank Bracket Axle	Each	3.00
Crank Bracket Cup, right	Each	1.00
Crank Bracket Cup, left	Each	1.00
Crank Bracket Cup Coupler	Each	.90
Steel Balls, 5/8" used	Gross	2.40
Crank Jamb Screws, left	Each	.20
Crank Jamb Screws, right	Each	.20
Crank Sprocket (state what pitch and number of teeth)	Each	2.50
Crank Sprocket Bolt (four used)	Doz.	.48

Brantford Crank Bracket Parts—(Continued).

Crank Sprocket Bolt Nut (four used)	Doz.	.24
*Crank Bracket Clamp Bolt	Each	.20
*Crank Bracket Clamp Bolt Nut	Each	.10

*Used on all models except 555, 556, 557 and 558.

NOTE.—Models No. 503, 505, 515, 533, 534, 535, 536 fitted with C.C.M. Hanger. Models 555, 556, 557 and 558 fitted with "T" Hanger.

Prices on these are the same as listed under "Cleveland" on this page.

MASSEY CRANK BRACKET PARTS.

Models A, A1, 43, 44, 46, 53, 56, 64, 83, 84, 85, 86, 87, 302, 303, 304, 305, 312, 314, 316, 322, fitted with old Massey Crank Hanger.

Crank, right	Each	\$4.00
Crank, left	Each	3.00
Crank Bracket Sleeve	Each	2.80
Crank Bracket Cup, right	Each	1.00
Crank Bracket Cup, left	Each	1.00
Crank Bracket Cup Coupler	Each	.90
Crank Bracket Ballcage, less balls (No. 322), 5/8" balls used	Doz.	2.08
Steel Balls, 1/8" used	Gross	2.40
Crank Sprocket (state what pitch and number of teeth)	Each	2.50
Crank Sprocket Bolt (four used)	Doz.	.48
Crank Sprocket Bolt Nut (four used)	Doz.	.24
*Crank Bracket Clamp Bolt	Each	.20
*Crank Bracket Clamp Bolt Nut	Each	.10

*Used on all models except 355, 356, 357 and 358.

NOTE.—Models 305, 306, 315, 333, 334, 335, 336, fitted with C.C.M. Hanger. Models 355, 356, 357 and 358, fitted with "T" Hanger.

PERFECT CRANK BRACKET PARTS.

Models 60, 61, 62, 63, 64P, 65P, 66P, 67P, 604, 606.

Single-piece Cranks	Each	\$5.00
Crank Bracket Cup, right	Each	1.00
Crank Bracket Cup, left	Each	1.00
Crank Bracket Stationary Cone	Each	.50
Crank Bracket Adjusting Cone	Each	.50
Crank Bracket Adjusting Cone Lock Nut	Each	.24
Crank Bracket Adjusting Cone Lock Washer	Each	.04
Crank Bracket Ball Retainer Washer	Each	.06
Steel Balls, 5/8" used	Gross	2.40
Crank Sprocket Bolt (four used)	Doz.	.48
Crank Sprocket Bolt Nut (four used)	Doz.	.24
Crank Sprocket (state what pitch and number of teeth)	Each	2.50

NOTE.—Models No. 633, 634, 635, 636, fitted with C.C.M. Hanger. Models No. 655, 656, 657, 658, fitted with "T" Hanger.

Prices Subject to Change Without Notice.

Parts Price List (Continued)

FRAME PARTS.

Cushion Frame (stripped), less Rear, Lower and Upper	Each	\$18.00
Cushion Frame (stripped), with Rear Forks assembled	Each	30.00
Rigid Frame (stripped)	Each	20.00
Frame Head	Each	1.50
Frame Head Connection	Each	.30
Front Fork	Each	5.00
Front Fork Stem	Each	.60
Front Fork Crown	Each	.80
Front Fork Side	Each	.80
Frame Front Lower Tube	Each	1.00
Frame Upright Tube	Each	1.00
Frame Top Tube	Each	1.00
Frame Saddle Bracket	Each	.90
Frame Rear Upper Tube	Each	.80
Frame Rear Lower Tube	Each	.80
Frame Rear Tube Brace	Each	.20
Frame Rear End	Each	.20
Frame Rear Tube Plug	Each	.24
Frame Crank Bracket, Malleable	Each	1.80
Chain Adjusting Screw	Each	.08
Chain Adjusting Screw Clip (Yoke)	Each	.08
Chain Adjusting Screw Nut	Each	.02
Frame Head Upper Cup	Each	.36
Frame Head Lower Cup	Each	.36
Frame Head Upper Adjusting Cone.....	Each	.48
Frame Head Stationary Cone	Each	.20
Frame Head Adjusting Cone Lock Nut...Each		.30
Frame Head Adjusting Cone Lock Nut Washer.....	Each	.04
Frame Head Ball Cage (less balls)	Each	.10
Frame Head Ball Retainer Washer (used on old models where no Ball Cage was fitted). Each		.04
Frame Nameplate (for any C.C.M. high grade model)	Each	.60
Frame Nameplate Backs	Each	.20
Frame Nameplate Rivets.....Per 100		.40
Frame Seat Post. See Accessories.		
Frame Seat Post Expander for Hygienic..Each		.90
Frame Seat Post Expander Bushing, long .Each		.16
Frame Seat Post Expander Bushing, short..Each		.16
Frame Seat Post Expander Sleeve	Each	.30
Frame Seat Post Expander Nut.....Each		.30
Handlebar Post, complete. See page 34.		
Handlebar Post Expanding Bolt. See page 35.		
Handlebar Post Expander. See page 35.		
Handlebar Post (stripped), less Bolt and Nut. See page 35.		
Seat Post Bolt	Each	.14
Seat Post Nut	Each	.16

HYGIENIC FRAME AND HANDLEBAR PARTS.

Rear Upper Fork, complete	Each	\$8.50
Rear Upper Fork, stripped	Each	5.50
Rear Upper Arch Crown and Tube	Each	2.00
Rear Lower Fork	Each	6.00
Dust Cap and Head	Each	1.00
Dust Cap Head Screws	Each	.02
Plunger Tube	Each	.50
Cartridge	Each	.40
Brass Bushing	Each	.80
Steel Washer	Each	.04

Hygienic Frame and Handlebar Parts—(Continued)

Leather Washer	Each	\$0.02
Springs Nos. 1, 2, 3, 4, 5, 6.....	Each	.50
Rear Lower Crown, Hygienic	Each	.80
Rear Lower Spring Bolt	Each	.10
Rear Lower Spring Bolt Nut	Each	.04
Rear Lower Flat Spring, short	Each	.20
Rear Lower Flat Spring, long	Each	.20
Rear Lower Flat Spring Rivet	Per doz.	.12
Rear End Connecting Bolt	Each	.06
Rear End Connecting Bolt Nut	Each	.02
Rear End Bushing	Each	.06
Saddle Bracket Binder Bolt	Each	.14
Saddle Bracket Binder Bolt Nut	Each	.16

SBLS' HANDLE BAR PARTS.

Handle Bar Post, stripped	Each	\$2.50
Handle Bar Post Clamp	Each	1.00
Handle Bar Post Clamp Bolt	Each	.20
Handle Bar Post Clamp Bolt Nut	Each	.12
Handle Bar Post Hinge Bolt	Each	.10
Handle Bar Post Hinge Bolt Nut	Each	.10
Handle Bar Post Hollow Bolt	Each	.50
Handle Bar Post Plunger	Each	.24
Handle Bar Post Spring	Each	.20
Handle Bar Post Expander	Each	.16

No. 10 HUB PARTS.

Front Hub (stripped) Shell	Each	\$0.90
Front Axle	Each	.30
Front Axle Cone	Each	.30
Front Hub Cup (screw-in cups), old style..Each		.20
Front Hub Ball Cage (less balls)	Doz.	1.32
Front Hub Axle Washer	Each	.02
Front Hub Axle Nut	Each	.06
Front Hub Cup Lock Ring (or Nut) (used on old Massey and Brantford front hubs only) Each		.20
Front Hub Cup Lock Washer (old style) .Each		.04
Front Hub Oiler	Each	.14
Front Hub Dust Shield (old style)	Each	.04
Rear Hub (stripped) Shell	Each	1.50
Rear Hub Axle	Each	.32
Rear Hub Cone	Each	.44
Rear Hub Nut	Each	.06
Rear Hub Washer	Each	.04
Rear Hub Cup (press-in style)	Each	.16
Rear Hub Cup (screw-in style)	Each	.30
Rear Hub Cup Lock Ring (old style) ....Each		.20
Rear Hub Cup Lock Washer	Each	.04
Rear Hub Ball Cage (less balls)	Each	.14
Rear Hub Dust Shield (old style)	Each	.12
Rear Hub Oiler	Each	.14
Rear Hub Sprocket	Each	.80
Rear Hub Sprocket Lock Nut	Each	.50
Rear Hub Sprocket Lock Nut Washer ....Each		.50

C.C.M. MOTORCYCLE PARTS.—

Owing to war conditions we cannot now obtain Motosacoche Engine parts (C.C.M. Motorcycle) from Switzerland. Therefore our stock is not complete. In ordering these parts always send sample, and if we have duplicates we will fill your order.

Advertising Caps and Pennants

IN response to requests from a number of dealers who prefer this form of advertising, we can now supply the excellent lines listed below.

By purchasing these in large quantities and bearing part of the cost ourselves, we can offer them at prices which bring them within the reach of every dealer, and at only a fraction of what they would cost in small quantities.

Advertising Caps

Well made, from very heavy weight of white cotton, with oilcloth sweatband and green-lined visor or peak. Furnished only in bundles of 50, each bundle containing an assortment of sizes suitable for boys, youths and men. Very neatly lettered and designed for Brantford Red Bird, Cleveland, Columbia, Gendron, Ivanhoe, Massey or Perfect nameplates. When ordering state which nameplate wanted.



- | | |
|-------------------|------------------|
| No. 581—Cleveland | No. 584—Perfect |
| No. 582—Massey | No. 585—Columbia |
| No. 583—Red Bird | No. 586—Gendron |
| | No. 587—Ivanhoe |

Per bundle of 50 assorted sizes. (We do not break bundles.) Price .. *7.6 1/4* Each

Advertising Pennants

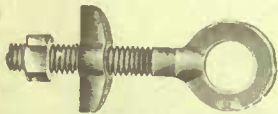


Neatly designed on richly colored cotton felts, with name and trade mark of Brantford Red Bird, Cleveland, Columbia, Gendron, Ivanhoe, Massey or Perfect nameplates. When ordering state which nameplate wanted. Size 9" x 18" allows pennant to fit inside the frame of all boys' juvenile bicycles, while extra long ties accommodate them to the largest men's frames.

- | | |
|--------------------|-------------------|
| No. 1633—Cleveland | No. 1636—Perfect |
| No. 1634—Massey | No. 1637—Columbia |
| No. 1635—Red Bird | No. 1638—Gendron |
| | No. 1639—Ivanhoe |

Packed in bundles of 25 pennants. (We do not break bundles.) Price ... *8.1 3/6* Each

Adjusters, Chain



Banjo



C.C.M.

(Made in Our Own Factory)

- | | |
|---|-------------|
| No. 200—Banjo (1/2 gross in box) .. Per doz. pair | <i>4/06</i> |
| No. 221—C.C.M. (less clip) .. Per doz. pair | <i>7/58</i> |
| No. 222—Clip only .. Each | <i>7/06</i> |

Axles, Hub, Front and Rear



- | | |
|---|--------------|
| No. 201—Front. Size 5" x 5/16", 24 thread. (25 in box) .. Per doz. | <i>307.6</i> |
| No. 211—Front. Size 5" x 5/16", 26 thread. Fit English front hubs. (25 in box.) .. Per doz. | <i>307.6</i> |
| No. 202—Rear. Size 6 1/4" x 3/8", 24 thread. (25 in box) .. Per doz. | <i>307.6</i> |

Axle Sets, Hub Complete



No. 204

Complete with drive-fit steel washers on cone, which may be turned down to any size desired.

- | | | |
|---|--------------|-------------|
| No. 204—Front Axles, 5" x 5/16" .. | <i>630.4</i> | Each |
| No. 205—Rear Axles, 6 1/4" x 3/8" .. | <i>636.8</i> | Each |
| No. 210—Front Axle Set, for English hubs .. | | <i>6350</i> |



No. 206

(Made in Our Own Factory)

- | | | |
|---|------|-------------|
| No. 206 (10)—Front Axle Set, 5/16" x 24 thread. (Small cone diameter 7/8") .. | | <i>8452</i> |
| | Each | |

Small cone plated, but not buffed.

- | | | |
|---|------|-------------|
| No. 207 (10 and 25)—Front Axle Set, 5/16" x 24 thread. (Large cone diameter 1 3/16") .. | | <i>8452</i> |
| | Each | |

Used on C.C.M. Bicycles. (See note.)

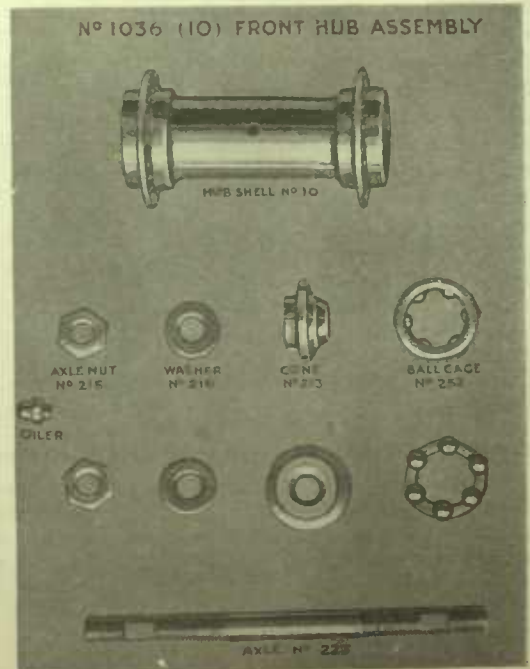
- | | | |
|--|------|-------------|
| No. 225 (25)—Front Axle Set, 5/16" x 24 thread, with new cone No. 224 used on 1918. No. 1047 (25) Front Hub .. | | <i>8452</i> |
| | Each | |

- | | | |
|--|--|-------------|
| No. 208 (10)—Rear Axle Set, 3/8" x 20 thread. Each | | <i>2600</i> |
|--|--|-------------|

Note.—The Small Cones were used on No. 10 Hubs supplied during 1912 and previously.

No. 207 Large Cone Axle Set fits our 1917 No. 25 Front Hub, but 4 washers are used (2 on either side) instead of two (1 on either side), as on No. 10.

Our new No. 1047 (25) Front Hub takes No. 225 Front Axle Set with improved Cone.



Axle Set, No. 10 Extra Parts

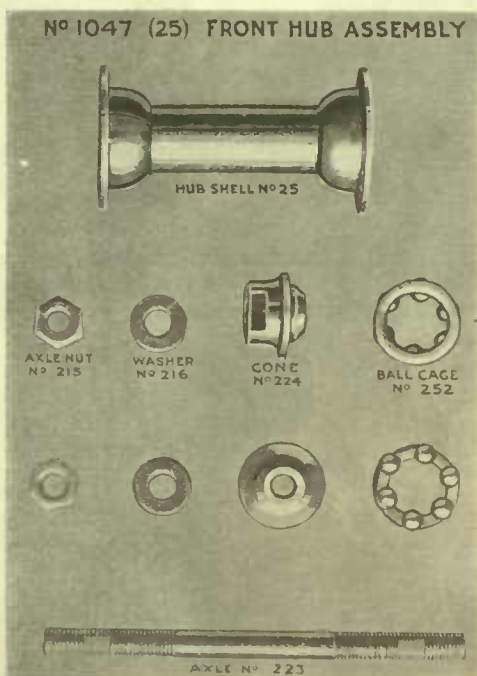
(Made in Our Own Factory)

FOR FRONT HUBS.

- No. 212—Cones $\frac{7}{8}$ " diameter, for No. 206 set. Each 8 80
- No. 213—Cones each $1\frac{3}{16}$ " diameter, for No. 207 set Each 8 80
- No. 223—Axles only for No. 206 or 207 set.. Each 8 90
- No. 215—Axle Nuts for No. 206 or 207 set. Each 60 53
- No. 216—Axle Washers for No. 206 or 207 set.. Each 60 27

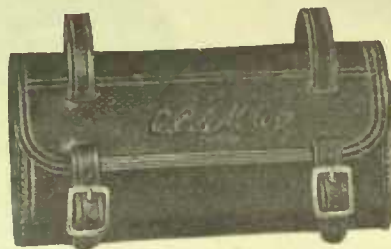
FOR REAR HUBS.

- No. 217—Cones for No. 208 set Each 62 00
- No. 218—Axle for No. 208 set Each 62 00
- No. 219—Axle Nuts for No. 208 set..... Each 30 63
- No. 220—Axle Washers for No. 208 set.... Each 60 30



Bags, Tool

(Made in Canada)



Standard—Size $6\frac{1}{2}$ " x $3\frac{1}{4}$ " x $1\frac{1}{2}$ ". Made from good grade of heavy leather, smooth finish.
No. 250 Each 65 08

Tool Bags, Complete with Tools

Standard Tool Bag—No: 2908 Monkey Wrench, Hand Pump and No. 1375 Oiler.
No. 251—Complete as above Each 49 53

Balls, Steel



One gross in box.

Sizes $\frac{1}{16}$ " and $\frac{3}{32}$ " are not used in Bicycles, but in Phonographs and small mechanical devices.

Sizes $\frac{1}{8}$ " to $\frac{3}{8}$ ", inclusive, are for use in Bicycles and Motorcycles.

Sizes $\frac{7}{16}$ " to 1", inclusive, are not used in Bicycles, but in Motorcycles, Motor Cars and large machines.

Diameter.	Price per Gross.	Diameter.	Price per Gross.
$\frac{1}{16}$ inch		$\frac{13}{16}$ inch	
$\frac{3}{32}$ inch		$\frac{7}{8}$ inch	
Above are not used in Bicycles.			
Diameter.	Price per Gross.	Diameter.	Price per Gross.
$\frac{1}{8}$ inch 4 95.7.		$\frac{1}{2}$ inch	
$\frac{3}{16}$ inch ... 2 50.1.		$\frac{5}{8}$ inch	
$\frac{1}{4}$ inch ... 6 50.2.		$\frac{3}{4}$ inch	
$\frac{5}{16}$ inch ... 1 65.7.		$\frac{7}{8}$ inch	
$\frac{3}{8}$ inch ... 1 70.6.		$\frac{15}{16}$ inch	
$\frac{7}{16}$ inch ... 2 20.7.		1 inch	
$\frac{1}{2}$ inch ... 3 20.7.			
$\frac{5}{8}$ inch ... 4 20.7.			
$\frac{3}{4}$ inch ... 4 20.7.			
$\frac{7}{8}$ inch ... 4 20.7.			
$\frac{15}{16}$ inch ... 4 20.7.			
$\frac{1}{2}$ inch ... 4 20.7.			

Above are not used in Bicycles, but in large machines.

Above are used in Bicycles and Motorcycles.

Axle Set, No. 25 Extra Parts

(Made in Our Own Factory)

- No. 224—Cones, $1\frac{1}{16}$ " diameter, for No. 225 set. Each 2 78
- No. 223—Axle for No. 225 set Each 7 78
- No. 215—Axle Nuts for No. 225 set Each 7 03
- No. 216—Axle Washers for No. 225 set Each 60 27

Balls Used in C.C.M. Bicycles

1916, 1917 and 1918—(All models the same).

Hanger	5"
Pedals	1 1/2"
Head Fittings	3/2"
Front Hub	1 1/4"
Hercules Brake	1 1/4"



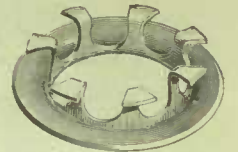
Ball Retainers
BICYCLE
(Less Balls)

Order by Number.

- (H 13)—For Hercules C.B. Adj. Cone. Per dozen *876*
- (H 14)—For Hercules Cone and Drive Screw. *4108*
.....Per dozen
- (B 115)—For Morrow, large sizePer dozen *9221*
- (B 106)—For Morrow, medium size ...Per dozen *6122*
- (B 109)—For Morrow, small sizePer dozen *7101*
- (A 16)—For New Departure, large...Per dozen *8120*
- (A 20)—For New Departure, small...Per dozen
- (F 56)—Fauber BracketPer dozen *7220*
- No. 252—For Nos. 10, 25 and 30 Front Hubs, fitted with large cone (diameter $1\frac{3}{8}$ ")Per dozen *575*
- No. 253—(90)—For No. 10 Front Hubs, fitted with small cone (diameter, $\frac{3}{8}$ ")Per dozen *270*
- No. 321—For "Hercules" Single Piece (Model F) Crank HangerPer dozen *7106*
- No. 322—For C.C.M. 1916 and 1917 Crank HangerPer dozen *1180*

NOTE.—No. 322 Ball Retainer used on 1916, 1917 and 1918 (Model T.) Crank Hangers.

Ball Retainers
MOTORCYCLE

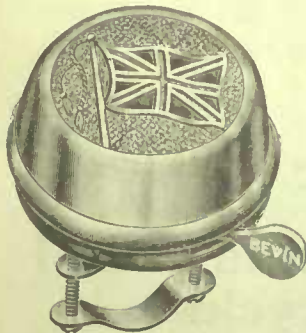


- $1\frac{5}{8}$ ins. No. 60 for Corbin M.C. HubDoz. \$2.52
- $1\frac{3}{4}$ ins. No. 97 for Corbin M.C. Brake. ...Doz. 2.52
- $1\frac{1}{2}$ ins. No. 34 for Corbin M.C. BrakeDoz.
- $1\frac{1}{2}$ ins. No. 67 for New Departure M.C. Brake.Doz.
- $1\frac{1}{2}$ ins. No. 34 for New Departure M.C. Brake.Doz.
- $1\frac{5}{8}$ ins. No. 30 for New Departure M.C. Front HubDoz.
- $1\frac{3}{4}$ ins. No. 97 for Miami Cycle & Mfg. Co. M.C. BrakeDoz.
- $1\frac{3}{4}$ ins. No. 99 for Miami Cycle & Mfg. Co. Crank Hanger BracketDoz.
- $1\frac{1}{8}$ ins. No. 54 for Indian M.C. Counter Shaft.Doz.
- $1\frac{1}{8}$ ins. No. 70 for Indian M.C. Adjustable Counter ShaftDoz.
- $2\frac{1}{8}$ ins. No. 87 for Eclipse Machine Co. M.C. Free Engine PulleyDoz.
- $2\frac{1}{8}$ ins. No. 109, used on the Henderson....Doz.
- $1\frac{7}{8}$ ins. No. 69, used on Reading Standard.Doz.
- $1\frac{1}{2}$ ins. No. 34, used on Thor M.C. Brake.Doz.

Bells

For HORNS, see page 37

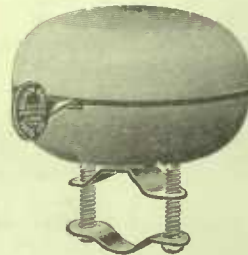
OUR line of Bells has been carefully selected. They are complete in grade, style and design. They are manufactured of selected metal, producing loud, penetrating and musical tones. The better grades are all manufactured from special bell metal—not steel. Each bell is packed in a neat cardboard carton.



No. 256.

Electric Stroke—Unlon Jack Flag Top, in colors. Flanged gong. Full nickel finish. Screw clamp.

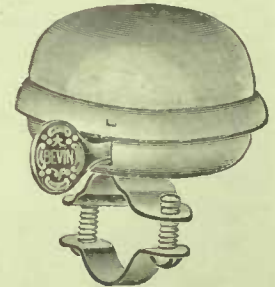
No. 256 (184)—2" gong. Per dozen (12 in box)*7.927*



No. 259. *6950*

Double Stroke—Chiming—Wrought metal gong. Full nickel finish. Screw clamp.

No. 259 (104)—Echo, $2\frac{1}{2}$ " gong. Per dozen (12 in box)



No. 254.

Electric Stroke—Wrought metal flanged gong. Full nickel finish. Screw clamp.

No. 254 (810)— $1\frac{3}{4}$ " gong. —Per dozen (12 in box) ...*6.250*

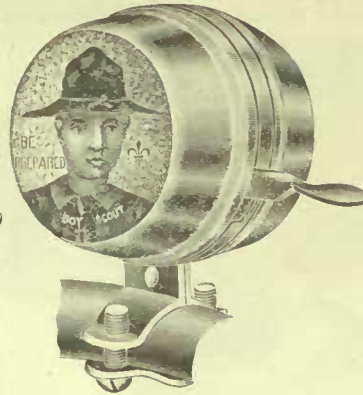
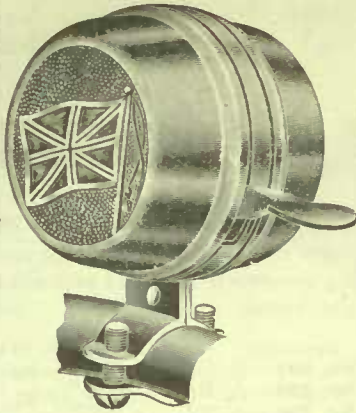
No. 255 (710)—2" gong. Per dozen (12 in box)*2.270*

No. 257 (610)— $2\frac{1}{4}$ " gong. Per dozen (12 in box) *8.211*

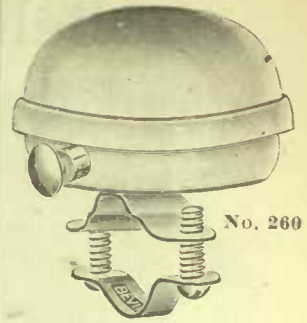
Bells (Continued)



No. 258. *6635*
No. 258 (56)—
 Beaded Push
 Button. 2 1/4"
 beaded gong,
 continuous
 ringing. Flag
 on top in col-
 ored enamel,
 balance of bell
 nickel finished.
 Per dozen (12
 in box)

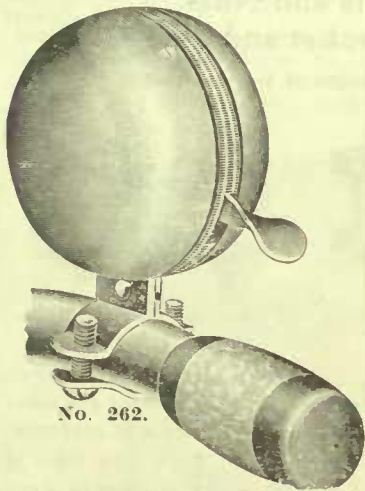


No. 323. Illustrating both sides. No. 323.
Double Dome, Electric Stroke—This bell has a "Union Jack"
 on one side and a "Boy Scout" on the other, in colors. Diameter
 of gong 2 inches. Screw clamp. A good patriotic line.
No. 323—Per dozen (12 in box) *4.55-6*

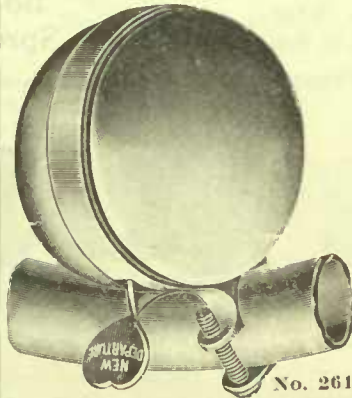


No. 260
Push Button—Continu-
 ous Ringing. Revolving
 flanged top. Wrought
 metal gong. Full nickel
 finish, screw clamp.

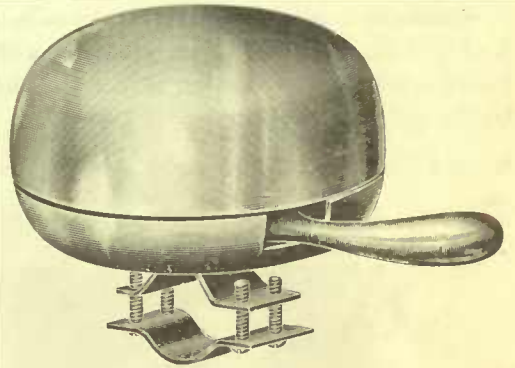
No. 260 (110)—2"
 gong. Per dozen *7.40*
 (12 in box)



No. 262.
Double Dome Chime, Tandem
Gongs—Rotary Movement. Full
 nickel finish. Screw clamp.
No. 262 (8-0)—2 1/2" gong. *6600*
 Per dozen (12 in box).



No. 261
Cathedral Chime
 —A high grade chime bell,
 very clear and musical, made
 of special selected bell metal,
 heavily nickel plated and
 highly finished. Revolving
 domes 2 1/4". Screw clamp
No. 261 (35C)—Per
 dozen (12 in box) .. *3.10*



No. 331—Bronko.
No. 331—Bronko—Has a
 particularly sharp, clear,
 penetrating note. Full
 nickel, 3" gong. Large
 finger ringing lever, easily
 operated. Double screw
 clamp. Full 1" size.
 (One in carton.) Per
 dozen (12 in box)

Bell Assortment "R"



A Very Convenient Assortment for
 Dealers.

Description—
 2 1/4" Electric
 Stroke, cast metal
 gongs, nickeled or
 oxidized, with de-
 signs enameled in
 various colors.

Packed in box
 of 1 dozen, con-
 taining two each
 of the designs
 illustrated.

NOTE.—Orders
 for smaller quan-
 tities than one
 dozen of this as-
 sortment will be
 filled from broken
 lots, regardless of
 top design.

No. 265—*4456*
 Per dozen
 (12 in
 box)

Good Luck Bell Assortment

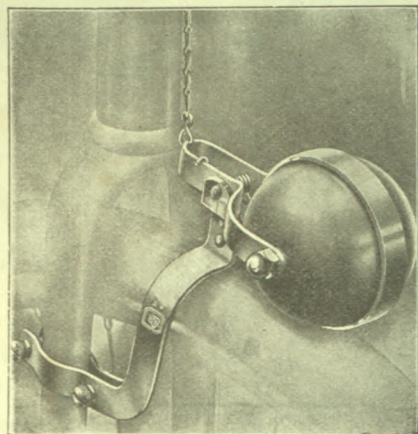
Made up of three Flag Top, three
 Boy Scout design, two Four Leaf
 Clover design, two Race Horse
 design, and one Lucky pattern
 design. Bells are
 2 1/4" Electric
 Stroke, cast
 metal gongs, flat
 top type similar
 to No. 256, and
 each bell is
 nicely enameled.
 Each bell pack-
 ed in box, and
 the 12 assorted
 in one carton.

No. 332—Per
 dozen (12 in
 box) ..



6320

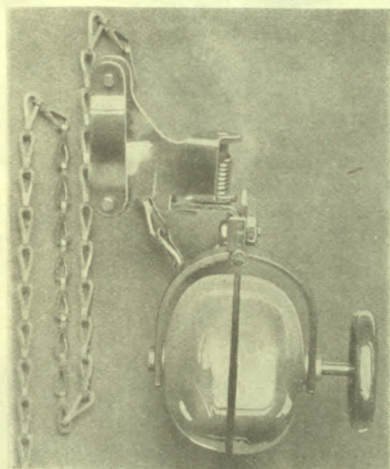
Bells, Tire



“Monarch.”

“Monarch”—This is an extra well-made Bell. When cable is drawn tight, the band in the centre of the bell comes in contact with the tire, producing a clear, penetrating tone. 3" diameter. Nickel plated.

No. 264—Price (1 in box) 7.75.....Each



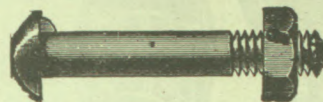
No. 333. 81452

Side Tire Bell—Since the introduction of extension front mud guards, a great demand has been created for a side tire bell which can be fixed to the front fork side and operated by coming in contact with the tire. The ordinary style of tire bell will not fit a bicycle with a front extension guard. This Bell is designed for this purpose. Gongs are 3" in diameter, and the entire bell is nicely nickel plated. Supplied with chain complete.

No. 333—One in boxEach

Bolts and Nuts

(Assembled)



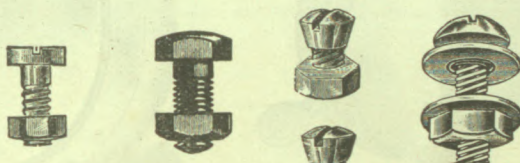
Handle Bar and Seat Post Clamp Bolts and Nuts— These bolts and nuts will give perfect satisfaction. They are accurately threaded and will not strip. Heads plated and buffed.

Diameter.	Length.	Diameter.	Length.
No. 294— $\frac{5}{16}$ " Rd...	1 $\frac{1}{4}$ "	No. 298— $\frac{3}{8}$ " Rd...	1 $\frac{1}{2}$ "
No. 295— $\frac{1}{8}$ " Rd...	1 $\frac{1}{2}$ "	No. 299— $\frac{3}{8}$ " Rd...	1 $\frac{1}{4}$ "
No. 296— $\frac{5}{16}$ " Rd...	1 $\frac{3}{4}$ "	No. 300— $\frac{3}{8}$ " Rd...	2 "
No. 297— $\frac{5}{16}$ " Rd...	2 "		

Price, dozen (1 gross in box)Dozen

Bolts and Nuts, Pedal, Sprocket and Toe Clip

(All in packages of 1 Gross each).



Pedal. Sprocket. Fauber. Toe Clip.

Pedal—These Pedal Bolts and Nuts are nicely nickel-plated and turned from bar stock steel. The bolts are carefully and accurately threaded, and the nuts fit perfectly.

Sprocket—Our line of Sprocket Bolts and Nuts is manufactured from the highest grade machinery steel, nicely finished and nickel plated. Supplied in $\frac{3}{16}$ " and $\frac{1}{4}$ " with 24 threads.

Fauber—We have added a line of short and long Fauber Bevel Head Sprocket Bolts and Nuts, perfect in size and shape, correct in form and finish, complete with nuts.

Toe Clips—These are manufactured from No. 8 wire, and are $\frac{5}{8}$ " long. They are fitted with two washers, and will hold Toe Clip rigid.

- No. 325—Rubber Pedal Bolt and Nut, C.C.M. Per dozen
- No. 302—($\frac{3}{16}$ "), Sprocket Bolts and Nuts. Per dozen
- No. 303—($\frac{1}{4}$ "), Sprocket Bolts and Nuts. Per dozen
- No. 304—Sprocket Bolts only, Fauber, short. Per dozen
- No. 305—Sprocket Bolts and Nuts. Fauber, long. Per dozen
- No. 324—Sprocket Bolts and Nuts, for all C.C.M. Bicycles. Per dozen
- No. 306—Toe Clip Bolts and Nuts. Per 100.....

Prices Subject to Change Without Notice.

Brakes, Improved Hercules Coaster Brake

THIS well known and popular brake has been still further perfected from time to time, and is now giving greater satisfaction than ever before.

The absence of side arm is appreciated by every dealer and repair man, as it enables the brake to be very easily and quickly removed from and replaced in the frame.

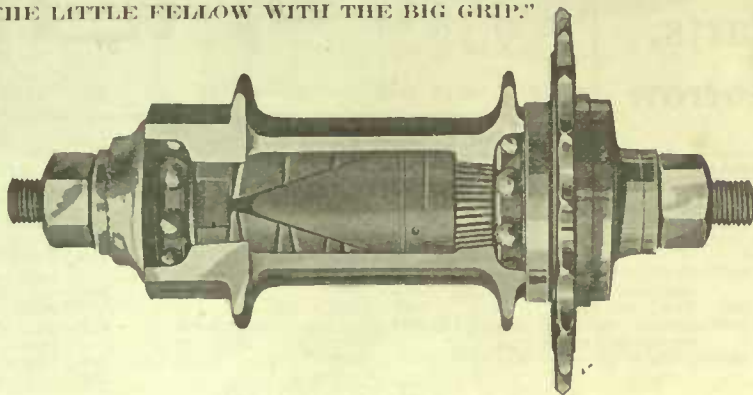
Its smooth powerful braking action, and the absence of any slipping when engaging the drive after coasting, appeals strongly to the cyclist.

Other strong features of the Hercules Brake are its extreme lightness, its comparatively small size, and the small number of parts employed in its construction.

Altogether, it is a brake which may be specially recommended and sold with the assurance that it will give the maximum of service and satisfaction and the minimum of trouble.

Guarantee—We give an absolute and unqualified guarantee on the Hercules Brake as to efficiency, material and workmanship, and if

"THE LITTLE FELLOW WITH THE BIG GRIP."



(Made in Our Own Factory)

it is not all we claim for it, we will replace it at our own expense, if returned to us within one year from date of purchase.

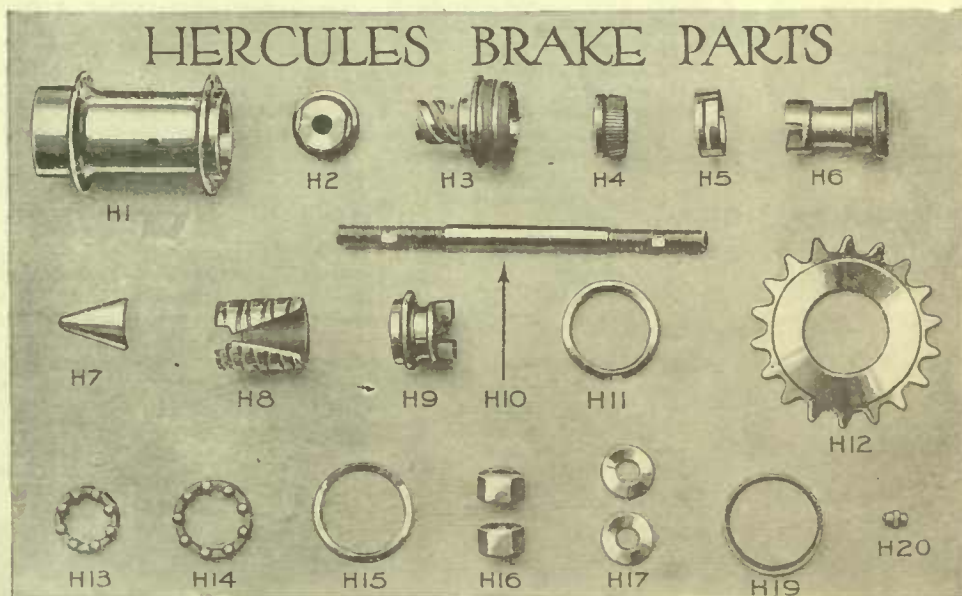
No. 308—Price with Sprocket.

Each 3.75

Note—Specify Sprocket required when ordering.

Brake Lubrication

For best results from this Brake, use **C.C.M. Hercules Brake Oil**, a heavy bodied oil, especially adapted for this purpose. See page 46.



HERCULES BRAKE PARTS

30 D
No. 483.
Shim of
Hercules
Brake.

(Made in Our Own Factory)

No. H- 1	—Hub Shell.	Each	6/350
No. H- 2	—Adjusting Cone	..... Each	2 230
No. H- 3	—Driving Worm	..... Each	6 800
No. H- 4	—Driving Clutch	..... Each	2 280
*No. H- 5	—Clutch Drag..	..... Each	3 000
*No. H- 6	—Brake Spool..	..... Each	2 380
No. H- 7	—Brake Wedge..	..... Each	1 060

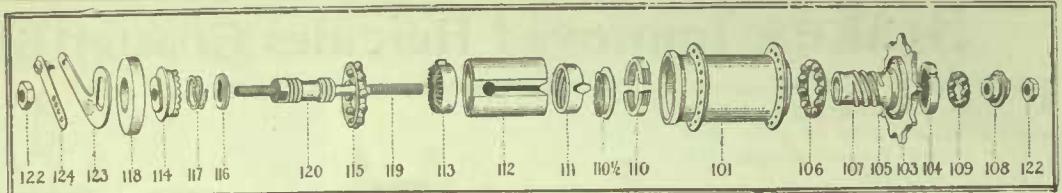
No. H- 7½	—Wedge Shim.	..... Per dozen	
No. H- 8	—Brake Sleeve.	..... Each	6 500
No. H- 9	—Stationary Cone.	..... Each	4 500
No. H-10	—Axle	..... Each	1 700
No. H-11	—Sprocket Lock Nut	..... Each	5 280
No. H-12	—Sprocket 1" pitch, 3/16" wide, 7 to 10 tooth	..... Each	
	½" pitch, 1/8" or 3/16" wide, 14 to 20 tooth	..... Each	6 280

No. H-13	—Small Ball Retainers, less balls	..... Each	4 70
No. H-14	—Large Ball Retainers, less balls	..... Each	8 90
No. H-15	—Chain Line Ring.	..... Each	4 71
No. H-16	—Axle Nut.	..... Each	3 61
No. H-17	—Axle Nut Washer.	..... Each	2 30
No. H-19	—Dust Shield.	..... Each	2 100
No. H-20	—Brake Oiler.	..... Each	2 81

*Assembled together.

"The Dealers' Interests Are Our Interests."

Brake Parts, Morrow



Cannot guarantee to supply all parts shown. Prices on application.

BRAKE PARTS, EADIE.
 —Prices supplied on application. We cannot guarantee prompt delivery owing to difficulty in securing from England.

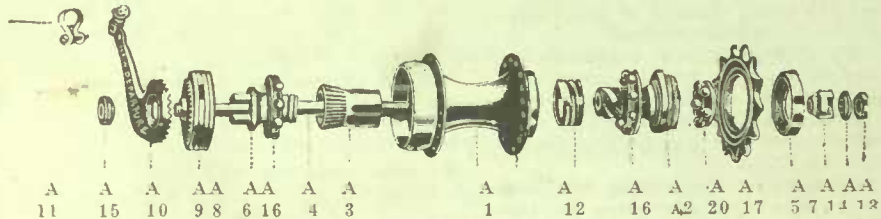
32R—Shell, with cups and serrated ring.
 33R—Friction Plate.
 34R—Brake Spring and phosphor bronze ring
 35R—Brake Cone and Lever.

36R—Brake Spring Lever.
 37R—Clutch Nuts.
 (A)37R—New Positive Drive Clutch Nut.
 38R—Driving Screw.
 39R—Chain Ring. (State size.)
 40R—R.H. Cups.
 (B)40R—R. H. Cups, New Style, with teeth to take New Style clutch.

41R—L.H. Cups.
 42R—Chain Stay Clips, complete.
 43R—Spindle only.
 44R—Lock Ring.
 45R—Lock Nuts, with oil hole cover.
 46R—Ball Retainers, with balls, large.
 47R—Ball Retainers, with balls, small.
 48R—Clutch Nut Spring.
 49R—Adjusting Cone.

50R—Clutch Nut Spring Screw.
 52R—Split Collar.
 53R—Split Collar.
 54R—Fixing Nut.
 56R—Fixing Nut.
 55R—Spindle Collar.
 57R—Chain Stay Clip Nut.
 58R—Chain Stay Clip Screw.
 59R—Spindle Nut.
 60R—Lubricator.

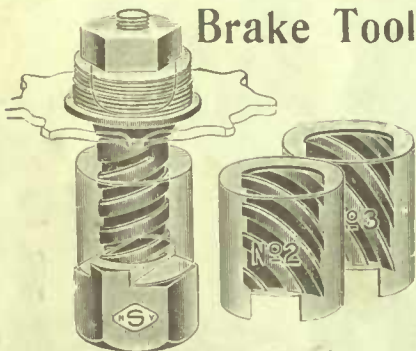
Brake Parts New Departure



A- 1—Hub ShellEach
 A- 2—Drive ScrewEach
 A- 3—Clutch Sleeve ..Each
 A- 4—AxleEach
 A- 5—Sprocket Lock Nut...
 Each
 A- 6—ClutchEach
 A- 7—Axle ConeEach
 A- 8—Brake Box, English..
 Each
 (See note.)

A- 8—AmericanEach
 A- 9—Brake CoverEach
 A-10—Brake Arm ...Each
 A-11—Brake Arm Clip..Each
 A-12—Transfer Spring..Each
 A-13—Axle NutEach
 A-14—Axle Washers...Each
 A-15—Convex Washers..Each
 A-16—Ballage (large)
Per doz.
 A-17—SprocketEach

A-20—Ballage (small)
 Per doz.
 Note.—State whether A-8 Brake Box is required with short pin (American Brake), or long pin (English Brake).
 We cannot supply A-8 English during continuation of war. But A-8 American may be used instead, provided A-9 and A-10 American are also used.



Brake Tool

Brake Tool—Stevens' Clutch. A compact Coaster Brake Clutch Tool, for use in vise. Will remove the tightest Sprockets.

Supplied with three special tools that take Hercules, New Departure and American Morrow Driving Screws.

Packed complete in small wooden box.

No. 334 Each

Brazing Compounds



No. 1157—Borax, powdered, per lb.
 No. 1158—Boracic Acid, per lb.
 No. 1156—Spelter, fine ground, per lb.
 No. 1159—Spelter Wire, per lb.
 No. 1247—Superior Brazing Compound (1 pound cans)Each

Blow Pipes Hot Blast, Gas Brazing



No. 312

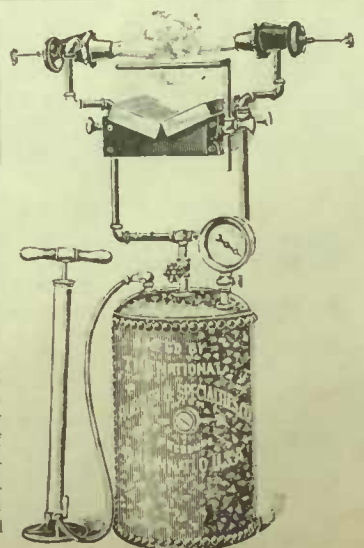
Made of 1/2" brass tubing, carefully fitted. Stop Cocks have pin handle instead of the knurled screw shown in cut. Length 14".

No. 312—PriceEach

Braziers Sterling

No. 1447—Brazier, 10 gal. tank with pump)Each

These braziers are fitted with improved hydro carbon burners adjustable to any angle. The tank is made of boiler steel, galvanized, tested to 150 pounds pressure. Gasoline is the fuel used. Gauge, fire bricks and full directions how to operate accompany each brazier.



Brazier, 10 gal. Tank.

Prices Subject to Change Without Notice.

Brushes



(Made in Canada)

Enamelling.—These brushes are of the very finest quality of hair, cement set, and will apply the enamel to the frame very freely, leaving a perfectly smooth and even surface.

- No. 313—Fitch Hair, ½". Per dozen (12 in box) \$ 2 05
- No. 314—Fitch Hair, 1". Per dozen (12 in box).
- No. 315—Fitch Hair, 1 ½". Per dozen (12 in box).



(Made in Canada)

Bicycle—No. 317—Single strand, 5" long. Length, including handle, 14".
Per dozen (½ gross in carton)



(Made in Canada)

Steel Wire—No. 318—Furnished in one size only, 6" x ¾". Length, including handle, 15". Made from the very best materials.
Per dozen (12 in package)



Buffers

No. 319—Frame Buffers—These are used to prevent the handlebar from injuring the enamel. Spring style grey rubber.

Per dozen (24 in box)

Belts, Motorcycle Half-inch Round

Chrome tanned, rawhide, fitted with improved fastener, suitable for C.C.M. Motorcycle. Length 7 feet. Complete instructions with each Belt.

No. 266—Round. Price Each

Belts, Spartan Motorcycle

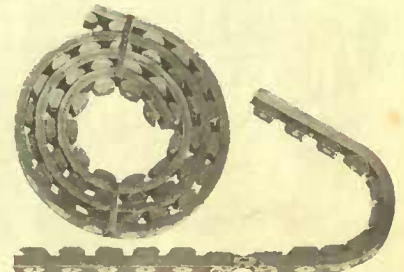
Spartan Belts are made of leather, especially adapted for Motorcycle use. Fastened together with cement, which is absolutely water and heat proof, and securely riveted. With a Free Engine Pulley, the "V" Belt is a most satisfactory and popular transmission. "V" Belt, 28 degree angle.

- No. 269—¾" x 4 Ply for single cylinder machines. Price, per foot
- No. 270—7/8" x 4 Ply for single cylinder machines. Price, per foot
- No. 271—1" x 4 Ply for single cylinder machines. Price, per foot
- No. 272—1 ¼" x 4 Ply for single cylinder machines. Price, per foot
- No. 273—1 ½" x 4 Ply for single cylinder machines. Price, per foot
- No. 281—1 ¾" x 5 Ply Giant for twin cylinder machines. Price, per foot
- No. 282—1 ¾" x 5 Ply Giant for twin cylinder machines. Price, per foot
- No. 283—1 ½" x 5 Ply Giant for twin cylinder machines. Price, per foot

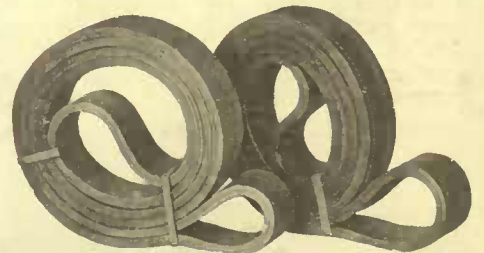
Sizes, Flat Belt, 9 ft. or Shorter.

- No. 274—1 ½"
- No. 275—1 ¾"
- No. 276—1 ¾" x 7' 11" (No. 276A 8' 2") (No. 276B 8' 7")
- No. 277—1 7/8"
- No. 278—2" x 8' 4" (No. 278A 8' 7 ½")
- No. 279—2 ½"
- No. 280—2 ¾"

Give length when ordering. Supplied Endless.



"V" Shape



Flat.

Bicycle Flags and Holder

Flags of The Allies

Seven silk flags, supplied with black enamelled holder for attaching to handlebars.

No. 759 (3)—Size of each flag 3" x 2"

No. 760 (4)—Size of each flag 4 ¾" x 3"



"The Dealers' Interests Are Our Interests."

Belt Dressing Motorcycle



A Belt Food prepared for Motorcycle Belts. It will positively lengthen the life of a belt, and produce a uniform drive. Treat your belt as you would your motor; clean belt often and apply Belt Dressing.

No. 284—Price, per dozen
Tubes

Belt Drill for "V" Belts



No. 654.

Cuts a clean straight hole for sizes $\frac{3}{4}$ ", $\frac{7}{8}$ ", 1". Thumb Screw nickelplated.

No. 654—One in box..Each

Belt Fastener for Motorcycle "V" Belts



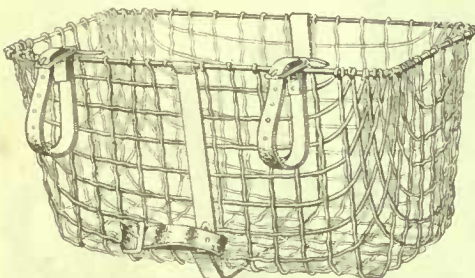
We recommend this Fastener for all sizes of Spartan "V" Belts.

Instructions.—To attach, remove rivet from belt by cutting off end of rivet with a cold chisel. Use the rivet holes for the screws. If belt is too thick, shave "block" so that the fasteners will fit snugly.

To detach, simply open the oblong washer on chain link, which is split at one end.

No. 285—PriceEach

Carriers, Parcel and Delivery



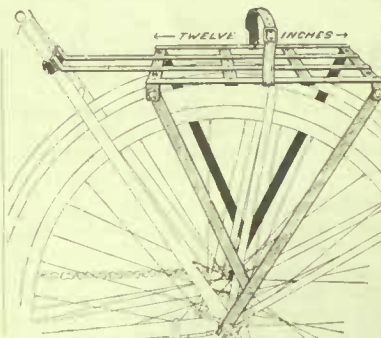
(Made in Canada)
No. 400

The Androck Bicycle Basket.

Just the thing for delivering small packages. Size $15\frac{1}{2}$ " x 8" x $7\frac{1}{2}$ ".

Fastens securely to the Bicycle with strong leather straps.

No. 400Each



No. 403

(Made in Canada)

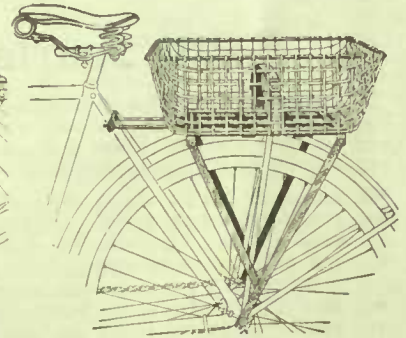
No. 404

Androck Luggage Carrier.

Large enough to carry all one wants to. Size of platform, 9" x 12". Length of carrier over all, 18". Supporting legs made of No. 12 steel, $\frac{3}{4}$ " wide. Finest black enamel finish. Size of basket, 18" x 13" x 6".

No. 403—Carrier only (6 in package)Each

No. 404—Carrier and BasketEach



"C.C.M." Tradesmen's.

When fitted with basket makes an ideal parcel carrier. Made of heavy gauge sheet steel, directly supported from front axle. Balances load perfectly, so that bicycle steers easily. Dimensions at top 14" x 20"; at bottom, 12" x 18". 6" deep.

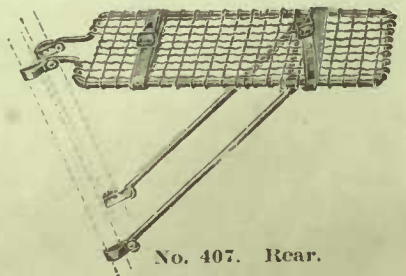
Improved adjustable clamp, adaptable for 20, 22 and 24" frames.

No. 529—Carrier without BasketEach

No. 523—Wicker Basket for aboveEach



(Made in Canada)

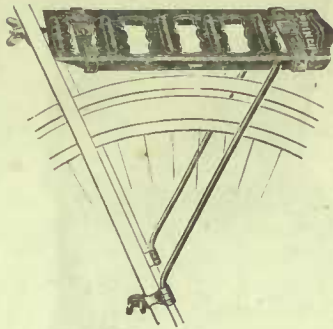


No. 407. Rear.

REAR.

No. 407—Size $14\frac{1}{2}$ " x $5\frac{1}{2}$ "
Split Leather Straps. Each
(12 in package.)

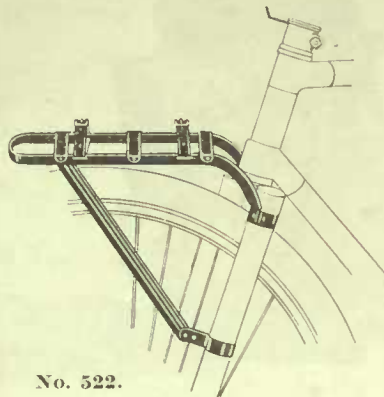
Carriers (Continued)



No. 409 Rear.

No. 409 (615)—An exceptionally strong, well-made, nickel-plated Carrier, size 12" x 5". Pressed steel top, two leather straps.

No. 409—For Rigid Frame Bicycles. Each



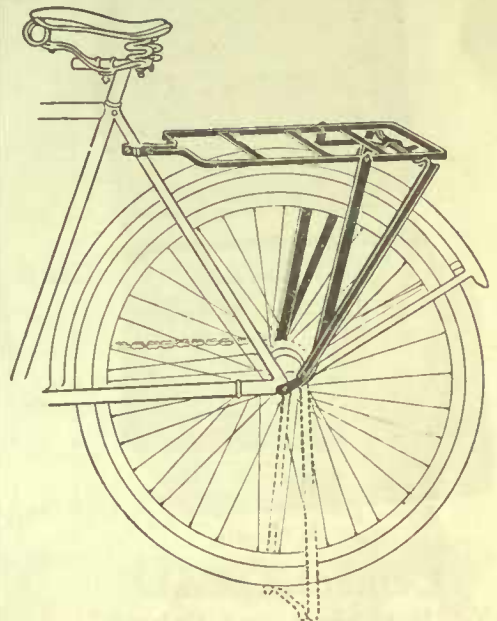
No. 522.

(Made in Our Own Factory)

"C.C.M." Military.

As supplied to the Canadian Army. Unusually strong. Black enamel, with straps. Size 13" x 5 3/4".

No. 522. Each



No. 412. (Made in Canada)

C.C.M. Combination Rear Carrier and Stand.

The size of both Stand and Carrier is exceptionally generous. The Carrier is both wider and longer than all others. The Stand is about 2" wider. The bottom of the Stand curves upward toward the centre, the sides forming feet, enabling Stand to rest steadily on any surface. The finish is unusually brilliant and durable.

No. 412—C.C.M. Combination Rear Carrier and Stand. Width of feet of stand, 11". Each

No. 571—Grey enamel Each

No. 572—Maroon enamel Each

No. 563—C.C.M. Rear Carrier (less Stand). Size 7" x 14 1/2". Each

7600

Cements

"Comfort" Wood Rim Cement

(Made in Canada)

This Cement is very thick and heavy, and leaves a deep body on the rim, which does not become hard or brittle. Supplied as follows, Imperial measure:

No. 449—2 oz. bottle, with swab (1 doz. in box). Doz.

No. 450—1/4 pint cans . . . Per doz.

No. 451—1 pint cans . . . Per doz.



"Comfort" Wood Rim "Shellac" Cement

(Made in Canada)

For cementing tires and grips. Made from a special formula, so treated as to prevent drying too quickly. Easy to handle, and keeps rims clean. Supplied as follows, Imperial measure:

No. 452—2 oz. bottles with swab (1 dozen in box). Doz.

No. 453—1 pint cans . . . Each

Cement, "Titewad"



The Rubber Putty. Permanently repairs rubber tires, tubes and other rubber articles without vulcanizing.

In screw top tin box, containing two small tins, one of putty and one of cement, with full directions.

No. 566—Large size Each 4850

No. 567—Small size Each

No. 573—25c. Retail Size for Bicycles Per doz.

Hard Tire Cement

Old English Brand. Contains an unusually high percentage of rubber and gutta. Supplied in one-pound packages.

No. 456 Per lb.

Cements (Continued)



(Made in Canada)

Cement, C.C.M. XX Patching and Fabric

(Imperial Measure.)

- No. 431— $\frac{3}{4}$ " x 4" collapsible tubes (2 dozen in box). 1780
.....Per gross
- No. 432—1" x 4" collapsible tubes (1 dozen in box).
.....Per gross
- No. 433— $\frac{1}{4}$ pint cans. Doz.
- No. 434— $\frac{1}{2}$ pint cans. Doz.
- No. 435—1 pint cans. Each
- No. 436—1 quart cans. Each
- No. 437— $\frac{1}{2}$ gal. cans. Each
- No. 438—1 gal. cans. Each



Cement M. & M. Patching

An unusually high grade patching cement.

- No. 2335— $\frac{3}{4}$ " x 4" collapsible tubes (1 dozen in box). 3816
.....Per gross
- No. 2336—1" x 4" collapsible tubes (1 dozen in box).
.....Per gross
- No. 2330— $\frac{1}{4}$ pint. Per doz
- No. 2331— $\frac{1}{2}$ pint. Per doz
- No. 2332—1 pint. Per doz 6380
- No. 2333—1 quart. Per doz.



(Made in Canada)

Cement Dunlop Patching

Supplied as follows. Imperial measure:

- No. 423— $\frac{3}{4}$ " x 4" collapsible tubes (2 dozen in box).
.....Per gross
- No. 424—1" x 4" collapsible tubes (1 dozen in box).
.....Per gross
- No. 425— $\frac{1}{4}$ pint cans. Doz.
- No. 426— $\frac{1}{2}$ pint cans. Doz.
- No. 427—1 pint cans. Doz.
- No. 428—1 quart cans. Each
- No. 429— $\frac{1}{2}$ gal. cans. Each
- No. 430—1 gal. cans. Each



Cement, Jifoid Plugging

"Jifoid" repairs single tube tires in two minutes. By simply injecting "Jifoid" in the puncture and allowing it to harden a perfect and permanent plastic plug is formed.

- No. 457— $\frac{3}{4}$ " x 4" tubes, with needles (12 in box). Per doz

Dunlop Bicycle

Cement Repair Outfit

Includes sandpaper, also French chalk, four round patches, strip of best quality patching rubber, piece of proof cover canvas to patch serious cuts through outer cover. Tube of high-grade rubber cement. Put up in neat design of box, which will fit conveniently in the tool bag.

- No. 460Price per dozen



(Made in Canada)

Prices Subject to Change Without Notice.



Carbide, C.C.M.

(Made in Canada)

C.C.M. Carbide is put up in handsomely lithographed cans—Blue and Orange—making a very striking article for window display.

- No. 413—½-lb. cans. (3 doz. in box)Per dozen
- No. 414—1-lb. cans. (2 doz. in box)Per dozen
- No. 415—2-lb. cans. (2 doz. in box)Per dozen

- No. 416—5-lb. cans. (1 doz. in box)Per dozen
- No. 417—100-lb. drums.....Each
- Auto Carbide No. 2030—5-lb. cans.Per dozen
- Auto Carbide No. 2028—100-lb. drumsEach

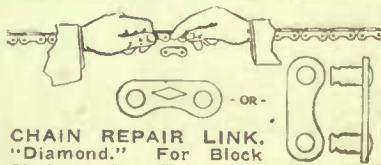
Note.—The above cans are full weight.

Chains



Chains—Diamond. (Packed in cartons.)

- No. 588—½" pitch x ¼" wide, 112 linksEach
- No. 589—1" pitch x 3/16" wide, 56 linksEach
- No. 590—½" pitch x 3/16" wide, 112 linksEach
- No. 591—1" pitch x ¼" wide, 56 linksEach



Chain Repair Links

CHAIN REPAIR LINK. "Diamond." For Block Chains only. Simple, effective quick method of adding a link or repairing break in chain.

- 2 links in package, 1 dozen packages in carton.
- No. 480—For 3/16" block chain. Per carton of 1 dozen packages
- No. 480A—For ¼" block chains. Per carton of 1 dozen packages



Diamond "Snap-On" Repair Link



For Bicycle Roller Chains. Simple and quick; no rivetting.

- No. 592 (8-75)—For ½" x ¼" roller chainPer dozen
- No. 593 (6-71)—For 1" x 3/16" roller chain ..Per dozen
- No. 594 (9-75)—For ½" x 3/16" roller chain ..Per dozen
- No. 595 (7-71)—For 1" x ¼" roller chainPer dozen

Chains, Duckworth Motorcycle



25 feet packed in cardboard carton. Sold by the foot.

- No. 550—¾" wide 5/8" pitch Per foot
- No. 576—¼" wide 5/8" pitch Per foot

Chain Bolts and Nuts

(English.)

- No. 475—Bolt and Nut for ¼" Chain, Atco or Maple LeafDozen
 - No. 476—Bolt and Nut for 3/16" Chain, Atco or Maple LeafDozen
 - No. 477—Bolt and Nut for ¼" Chain, Brampton ..Dozen
 - No. 478—Bolt and Nut for 3/16" Chain, Brampton..Dozen
 - No. 479—Bolt and Nut for ¼" Chain, Brampton ..Dozen
- Note.—We do not now stock Atco, Brampton or Maple Leaf Chains complete.

Chain Parts, Roller



(English.)

Ordinary Repair Link consists of two Rollers, two Bushings, two Inside Plates, one Outside Plate with rivets assembled, one Outside Plate only.

- No. 472—For ¼" x ½" Chains for Atco or Brampton ...Per doz.

- No. 473—For 3/16" x 1" Chains for Atco or Brampton ...Per doz.

- No. 474—For ¼" x 1" Chains for Atco or Brampton ...Per doz.



Straight Connecting Link consists of two Bolts, two Nuts, two Outside Links; suitable for Atco, Maple Leaf, or Brampton Chains.

- No. 471—For 3/16" x 1" ChainsPer doz
- No. 519—For ¼" x 1" ChainsPer doz.
- No. 470—For ½" x ½" ChainsPer doz.

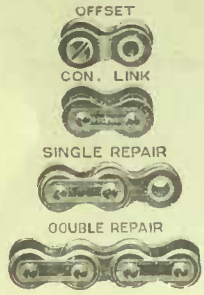
We cannot guarantee to supply ENGLISH CHAIN PARTS under present conditions, although we have a limited stock on hand, and have more on order which we may receive.

Chain Repair Assortment Atco

Put up in 8-compartment tin box (not in carton as illustrated) containing:

- 12 each No. 470-471 Straight Connecting Links.
 - 12 each No. 472-473 Ordinary Repair Links.
 - 12 each ¼" and 3/16" Bolts and Nuts.
 - 12 each ¼" and 3/16" Bushings.
 - 12 each ¼" and 3/16" Rivets.
 - 12 each ¼" and 3/16" Rollers.
 - 12 each ½" and 1" Inside Plates.
 - 12 each ½" and 1" Outside Plates.
 - No. 526—Per boxEach
- NOTE.—Above parts are for Atco and Appleby Chains, but many of them are suitable for Brampton and other chains.





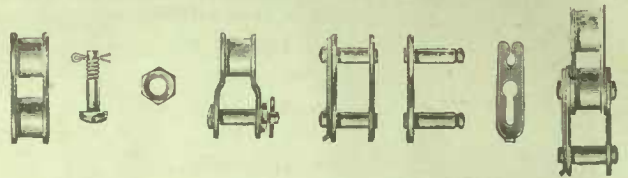
Chain Repair Links

Duckworth Motorcycle

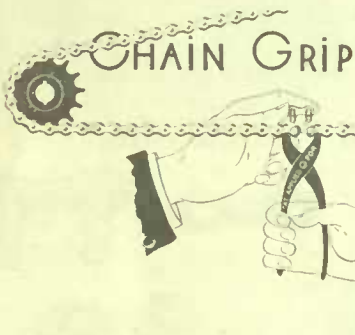
- 551—Connecting Link Each
- 552—Repair Link, Single Each
- 553—Repair Link, Double Each
- 554—Offset Link Each

Chain Parts

Atco Motorcycle



- No. 542. No. 534. No. 483. No. 482. No. 536. No. 535. 533.
- No. 512—Blocks Each
- No. 534—Bolts and Nuts Each
- No. 483—Cranked Link Each
- No. 482—Connecting Link Each
- No. 535—Springs Dozen
- No. 533—Double Link Each
- No. 536—Rivets Dozen
- No. 537—Outside Plates Dozen
- No. 539—Rollers Dozen
- No. 540—Bushings Dozen
- No. 541—Inside Plates Dozen

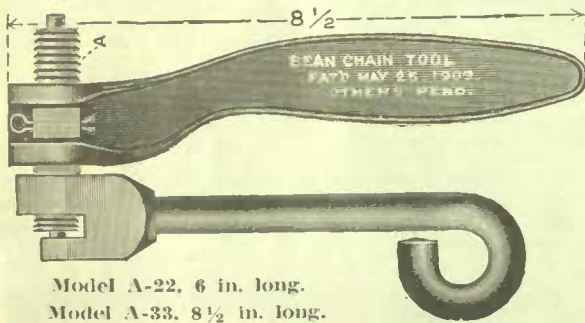


Chain Grip—Duckworth

Makes the hard and dirty job of connecting chain very easy, without the necessity of readjusting the wheel. Can be carried in Tool Bag. Black enamelled. One in box.

No. 564 Price, each

Chain Tools



Model A-22, 6 in. long.
Model A-33, 8½ in. long.



Chain Tool, Peerless Motorcycle

"The tool with the punch." Removes any rivet with one grip of the handle. Correct lever action, almost instantaneous and very easily operated.

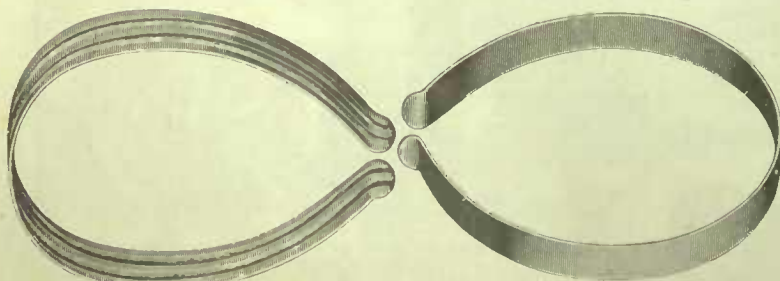
No. 570 Each

Chain Tool, Bean Motorcycle

The handle support has a threaded, headless bolt extended to each side, making it reversible, and giving it double the wear of any other make. (Packed one in a carton.) Complete instructions with each tool.

No. 543—(A-33)—For shop use Each
No. 544—(A-22)—Tool kit size Each

Clips, Trouser



No. 499. Corrugated.

No. 500. Perfection.

Manufactured from the best quality of spring steel and oil tempered with an enamel finish.

No. 499—Per gross pairs
(3 doz. pr. in box)

No. 500—Wide Perfection
Guards. Per gross pairs
(3 doz. pr. in box)



Rugby.

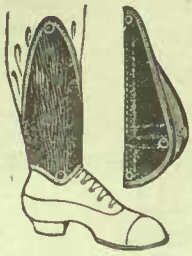
The Rugby Clip—We have no hesitation in saying this is one of the best made. Grips the trousers hard and stays on.

Furnished in either blue lacquered or nickel finish.

No. 497—Nickelled, per gross pairs (3 doz. pairs in box)...

No. 498—Lacquered, per gross pairs (3 doz. pairs in box)...

Clip and Trouser Guard, Eclipse



Pantasote guard, with pant clip inserted. Removed with slight pull at top. Can be comfortably concealed beneath trouser leg when not in actual use.

No. 530—Motorcycle size. Per dozen pairs (6 pr. in carton).
Dozen pairs
No. 527—Bicycle size. Per dozen pairs (6 pr. in carton)Doz. prs.

Clips, Toe

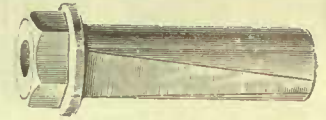


The "Star" Combination.

Made of sheet steel and crucible steel wire, nickel plated and polished.

No. 495—Per dozen pairs (1 doz. pr. in box) ..Doz. pr.

Cotter Pins, Crank Assorted



Furnished complete with nut, well nicked and polished. Furnished in following sizes: $\frac{5}{16}$ ", $\frac{11}{32}$ ", $\frac{3}{8}$ ", $\frac{13}{32}$ ".

No. 1415—Price (1 gross in box)Per dozen

Cyclometers, Veeder Bicycle



Veeder Bicycle Cyclometers come in two styles. The 10,000 Mile is dust proof, water proof, absolutely correct, small and light, every part being as accurately made as the parts of a watch.

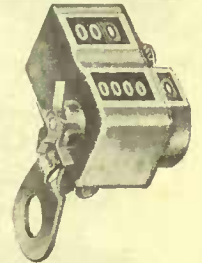
The Trip style is practically two

No. 514—10,000 mile.

cyclometers side by side. One records the total mileage, the other records the trip.

Each in small carton (12 in large counter display carton).

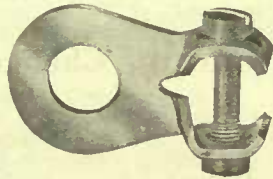
No. 514—10,000 MileEach
No. 515—TripEach



No. 515—Trip.

CYCLOMETER BRACKET Veeder Bicycle

No. 516Each

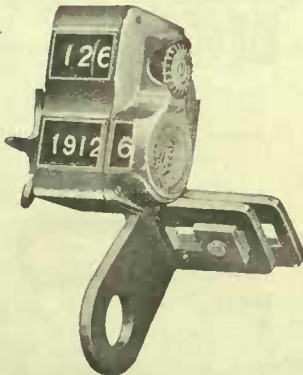


CYCLOMETER STRIKER Veeder Bicycle

No. 517Each



Cyclometers Veeder Motorcycle



No. 511—Trip.

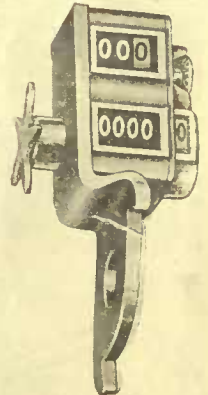
The Trip style is practically two cyclometers side by side. One registers the total mileage, the other records the trip. Packed each in a small carton, with complete instructions. (12 small cartons in large carton.)

No. 511—For 26" wheel, including Bracket and Striker (12 in box)Each

No. 520—For 28" wheel, including Bracket and Striker (12 in box)Each

No. 518—Special Harley-Davidson Model for 1916, 1917 and 1918 Motorcycle, complete with bracket and Striker (12 in box)Each

NOTE—When ordering, state serial number of Bracket required.



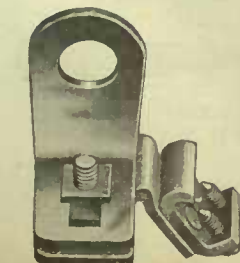
No. 518.

Cyclometer Brackets, Motorcycle

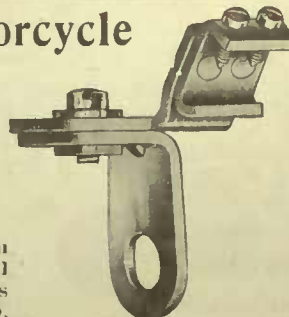
No. 546 — (H-7) —
For Indian, Pope and Excelsior machinesEach

No. 513 — (H-10) —
For all other makes except Harley-Davidson. Each

Note. — Harley-Davidson Motorcycles require special brackets, which are always sold complete with H.-D. Cyclometers.

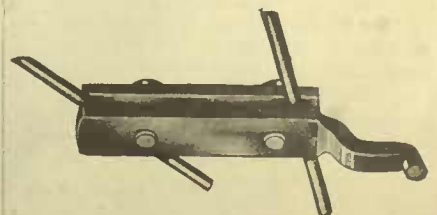


No. 513—H-10 Bracket.



No. 546.
H-7 Bracket.

Cyclometer Striker Motorcycle



No. 512Price, each



Cones Adjustable

- No. 502 — $\frac{5}{8}$ " 24 Thread Each
 No. 503 — $\frac{3}{4}$ " 24 Thread Each

Crank Repair Tips



For repairing cranks broken at the pedal end. Drop forgings.

Threaded $\frac{1}{2}$ x 20, in pairs, right and left.

- No. 509R—Right Each
 No. 509L—Left Each

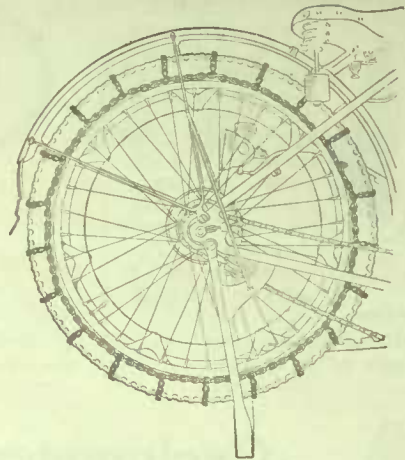
Cushion for Passenger Carrying (Motorcycle)



This is a spring cushion, with soft, stuffed cover and board bottom. Finished in leatherette with folded corners and full bound base. Furnished in red and brown. Size 14" x 8 $\frac{3}{4}$ " x 4 $\frac{1}{2}$ ". Fitted with four attaching brackets.

- No. 411 Each

Chains, Tire Weed Motorcycle



Made for service. Are thoroughly practical and safe. Easily attached. Take up little room in tool bag, and can be carried in pocket. Packed one in a canvas bag.

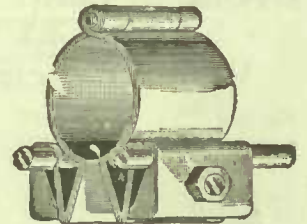
- No. 485—26 x 2 $\frac{1}{2}$ Each
 No. 486—28 x 2 $\frac{1}{2}$ Each
 No. 487—28 x 2 $\frac{3}{4}$ Each
 No. 488—29 x 2 $\frac{3}{4}$ Each
 No. 489—28 x 3 Each

Cross Chains.

- No. 490—2 $\frac{1}{2}$ " Each
 No. 491—2 $\frac{3}{4}$ " Each
 No. 492—3" Each

Clamp, Chalfant

A Clamp for attaching to top bar of frame for purpose of lowering saddle by bringing it closer to the frame than the seat post would allow. No seat post is necessary when this clamp is used.



- No. 574—1" size Each
 No. 575—1 $\frac{1}{8}$ " size Each

Drivers, Screw

Made from smooth, flat steel, with rounded corners. Blade is hardened and point ground. Nicely nicked.

- No. 18043—Per dozen (50 in box)



No. 18043.



No. 655.

Wire.

This driver is made from the best quality of steel wire, carefully tempered.

- No. 655—Per dozen (1 gross in box)

- No. 18235—Bridgeport, wood handle, 6" hexagon blade (12 in box) Per dozen



No. 18235.



No. 18044. Right, Left and Rigid.

Yankee Ratchet, 5 in. Blade.

Material and workmanship are of superior quality in every detail. Strong, durable, handsomely finished; thoroughly tested. Nickel plated. Right, Left and Rigid.

- No. 18044—Price (6 in box) Each

Drivers, Screw (Continued)

Yankee Ratchet, 1 1/4 inch Blade.

Made for special use of gunsmiths, fitters, electricians and mechanics, requiring a strong, substantial screw driver with a short stub blade. It is right or left hand, and rigid.

No. 18045—Each (6 in box)



No. 18045.

Spiral Ratchet Screw Driver, No. 657.



No. 657. Right and Left Hand and Rigid.

Right and left hand and rigid. Can be set rigid at any part of its length.

No. 657—Price (each in carton) Each

Spoke Nipple Screw Driver, No. 658.

It is beautifully finished, and is the very best tool for bicycle spoke nipples. Centre of blade is hollow to allow for spoke. Handle is not fluted, as shown in cut.

No. 658—Per dozen



No. 658.

Vlchek Motor Cycle Screw Driver



No. 659.

Square shanked for turning tight screws with aid of wrench. Length of blade 5". Length over all, 10 1/2". (6 in box).

No. 659—Price Per dozen.

Die Sets (See page 61)

C.C.M.

Supplied in the following colors: Black, "Indian" Motorcycle Red, Robin's Egg Blue, Maroon, Tribune Blue, Bullfrog Green, Golden Brown, White, Excelsior Gray, Excelsior Service Green, Harley-Davidson Service Green, Harley-Davidson Gray, French Gray.

- No. 703—1/4 pint tins (wine measure), Black ... Per dozen
- No. 704—1/4 pint tins (wine measure), Colors ... Per dozen
- No. 714—1/4 pint tins, White ... Per dozen
- No. 705—1 pint tins (wine measure), Black Each



(Made in Canada)

Enamels, Air Drying

Club Black

Special Hard Drying

(Two Sizes.)

This enamel is very convenient for repair shop use, as it dries hard in fifteen or twenty minutes.

No. 701—Club—Small size (2 gross in box). Per dozen.

No. 702—Club—Large size (1 gross in box). Per dozen.



Club Enamel.

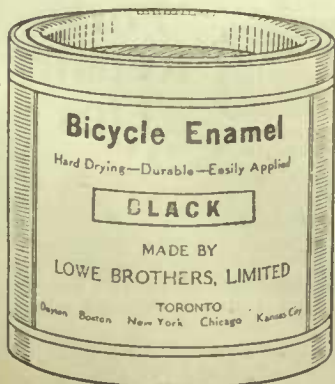
Enamel Lowe's

(Made in Canada)

A high grade, air-drying enamel, which dries with a beautiful brilliant lustre.

No. 713—1/4 pint cans, Imperial measure, black only ... Dozen.

"The Dealers' Interests Are Our Interests."



Enamel, Baking

No. 710—Black (Imperial measure), 1 pint cans Per dozen

Aluminum Paint

Dealers will find this Paint an all-round seller for decorative purposes. A beautiful and untarnishable finish for frames, forks, wood rims, guards and nickel work. Has the appearance of frosted silver. Supplied as follows:

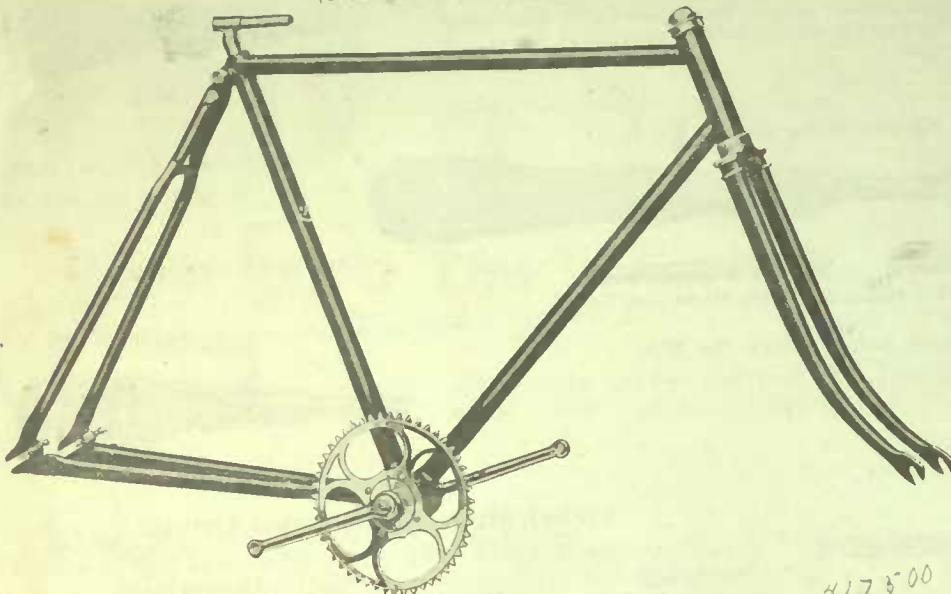
No. 711—Aluminum, 1/4 pint Per dozen
No. 712—Aluminum, 1/2 pint Per dozen



(Made in Canada)

Frames and Forks, Model T

(Made in Our Own Factory)



T Frame, Forks and Fittings, as above (Black) 41.75⁰⁰
 This frame used in all C.C.M. Bicycles. We manufacture one frame only.
 Extra for Colored Enamel
 Extra for Colored Sunburst Head
 Extra for Stripping

"Hercules" Repair Forks



(Made in Our Own Factory)

Fork Stems only

(Made in Our Own Factory)



- No. 756—24 Thread for Canadian Bicycles. Price, each
- No. 757—30 Thread for Canadian Bicycles. Price, each
- No. 758—26 Thread for English Bicycles. Price, each

"Hercules" Repair Forks

We supply these as per following specifications:

- Fork sides and crown enamelled black; 10" stem.
- No. 749—Double Plate Crown, 24 thread, enamelled Each
- No. 755—Double Plate Crown, 26 thread, enamelled Each
- No. 750—Double Plate Crown, 30 thread, enamelled Each
- No. 761—Double Plate Crown, not threaded, enamelled Each

NOTE.—Above are now threaded for 26" frames, and can be fitted to 20", 22" and 24" frames by cutting to the necessary length.

Fork Stem Set, Derby



(Made in Canada)

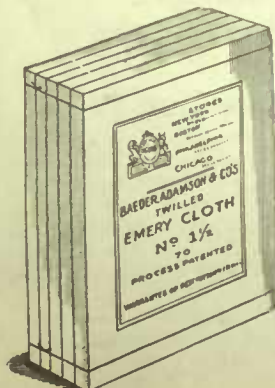
Die and Guide—2 3/4" diameter, Cutting Thread 1" x 24", with 26" stock. Packed in wooden box; Set Screw packed in end of Die Holder.

- No. 2115—Each
- Extra Dies, for Cutting Threads 1" x 24, 26, 28 or 30 stock Each

Emery Cloth

We stock in sheets 9" x 11" B. & A. Twilled Black Emery Cloth, as below:

- No. 4003—(Fine) (1 quire pkg.). Per doz. 2.75⁰⁰
- No. 700—(Medium) (1 quire pkg.). Per doz.
- No. 4004—(Coarse) (1 quire pkg.). Per doz.



Fork Repair Tips

- Drop forged. Supplied in 7/8" and 1".
- No. 2120—7/8" Per dozen pair
- No. 2121—1" Per dozen pair

DEALERS' NAMEPLATES.

If you require a special nameplate, send us your sketch with particulars, and we will submit a drawing and definite quotation. Regular type nameplates finished in one color, a choice of nickel-plated, oxidized silver or gold plated.

- 25 Nameplates ..
 - 50 Nameplates ..
 - 100 Nameplates ..
 - 200 Nameplates ..
- Extra for two-colored plate .. Per 100
 Extra for enamelled name ... Per 100

Prices Subject to Change Without Notice.

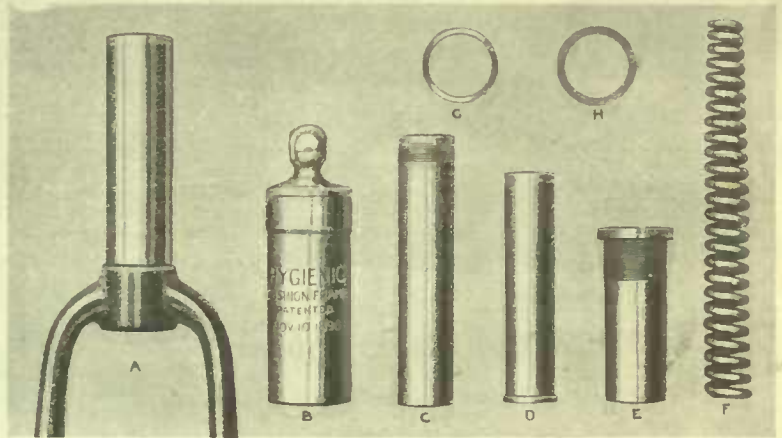
Frame Parts for Hygienic Cushion Frames

- No. A.—Rear Upper Hygienic Fork Assembly, stripped. Each
- No. B.—Dust Cap and Head. Each
- No. C.—Plunger Tube. Each
- No. D.—Cartridge Each
- No. E.—Brass Bushing. Each
- No. F.—Spring Each
- No. G.—Steel Washer. Each
- No. H.—Leather Washer. Each

(There is a leather plug fitted in the rear upper fork assembly which is used as a cushion for the cartridge, eliminating any rattling noise.)

Note.—When ordering Spring (give number), state whether for 22" or 24" frame.

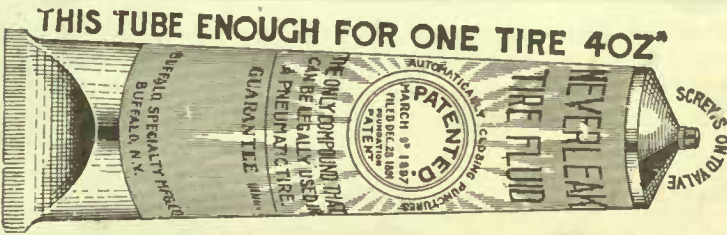
- No. 1, for riders weighing 100 lbs. to 125 lbs.
- No. 2, for riders weighing 125 lbs. to 150 lbs.



(Made in Our Own Factory)

- No. 3, for riders weighing 150 lbs. to 175 lbs.
- No. 4, for riders weighing 175 lbs. to 200 lbs.

- No. 5, for riders weighing 200 lbs. to 250 lbs.
- Much of the benefit from this splendid feature is lost if the spring is not fitted to the rider's weight.



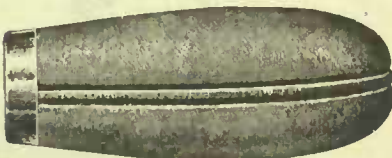
Fluids, Tire

"Neverleak."

Per doz.

No. 751—4 oz. tubes (12 in box).....

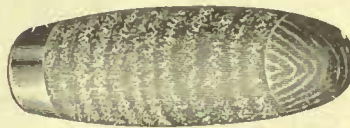
Grips, Handlebar



(Made in Canada)

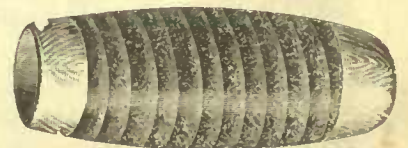
No. 823.

Sewn Leather Grips, Brown. For 7/8" bars.
No. 823—(1 doz. prs. in box).
.....Per pair 3 26 3/4



No. 822—4.

No. 824 (75)—Leather wound, 7/8" nickeled ferrules (1 doz. prs. in box). Doz. prs.
No. 822 (75)—Leather wound, 3/4" nickeled ferrules (1 doz. prs. in box). Doz. prs.



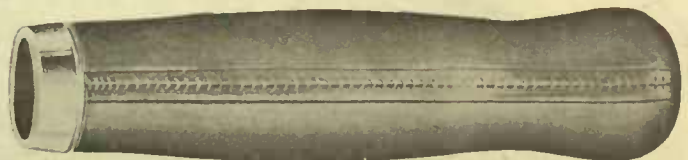
No. 825.

No. 825 (68)—Leather wound, wood tips (1 doz. prs. in box)Doz. prs.



No. 826.

No. 826 (171)—Celluloid Bluemel (English manufacture) (1 doz. prs. in box)Dozen pairs



No. 828.

No. 828—Bull Dog. First quality sewn leather grips, 7/8" (1 doz. prs. in box)Pair

"The Dealers' Interests Are Our Interests."

Grips, Handlebar (Continued)



Liberty

A rubber grip of neat design, as illustrated, square ends, standard size.

No. 888 (157)—(1 doz. prs. in carton) ... Per pair

Corrugated Rubber

This is a moulded grip made of rubber throughout, reinforced with heavy fabric inside, and fitted with strong nickeled ferrule. Length over all 3 3/4".



No. 874.

No. 874 (94)—(1 doz. prs. in box) Per pair



No. 829.

No. 829—Boy Scout, Jr., woven steel reinforced rubber grips, 7/8" (1 pr. in box) Pair

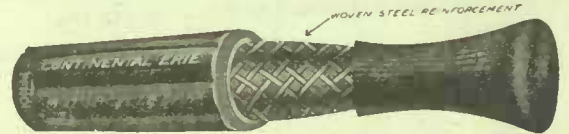
Enduro Black Rubber

A well designed and popular priced Rubber Grip.

No. 882—One dozen pairs in a carton Per pair



Motorcycle Woven Steel Reinforced



These grips are made with an inner lining of fabric and steel reinforcement. Made in two styles as shown.
 Regular Type—No. 830 (200)—Regular, 1" (one pair in box). Pair
 No. 831 (200)—Regular, 1 1/8" (one pair in box). Pair
 Indian Type—No. 864 (100)—For 1" bars. Corrugated. Special for Indian Motorcycle (one pair in box) Per pair

Grips, Nipple



Perfect.

Perfect.

Made in three sizes.

No. 832 (1)—Small, for general use (1 doz. in box).
..... Each

No. 833 (2)—Large, for repair work (1 doz. in box).
..... Each

No. 834 (3)—Auto, for heavy work (1 doz. in box). Each



"Clifford."

Nickel Plated.

No. 836—Clifford
..... Per doz.



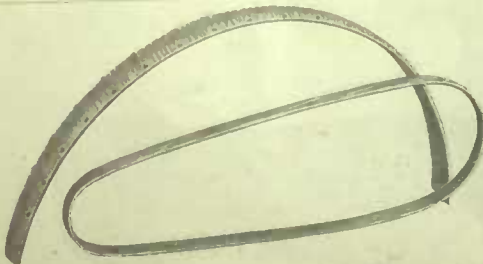
Never Slip.

(Made in Canada)

The harder you pull the tighter it holds. Heavily nickel-plated, end buffed.

No. 835—Per doz. ...

Guards



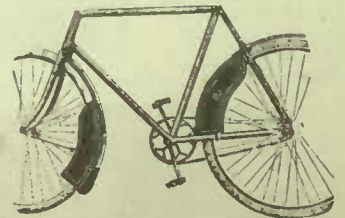
(Made in Our Own Factory)

Guards, Wood Dress and Chain

- No. 850—Dress only, plain maple Each
- No. 851—Dress only, plain oak Each
- No. 852—Chain only, plain maple Each
- No. 853—Chain only, plain oak Each

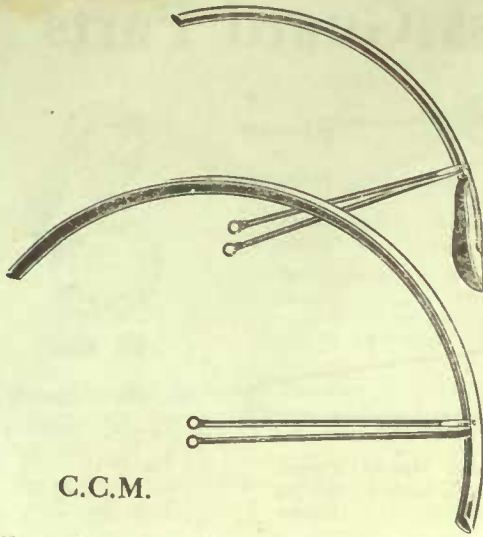
These guards are all made from selected maple and oak. They are all highly finished. Eyeletted unless otherwise ordered.

Made of celluloid, light yet durable, and a very effective article for keeping mud off your clothes.



Bluemel Side Mud Guards

- No. 867—Front and Rear (packed 3 pairs in one box) Pair
- No. 868—Front only (2 in box) Each
- No. 869—Rear only (3 in box) Each



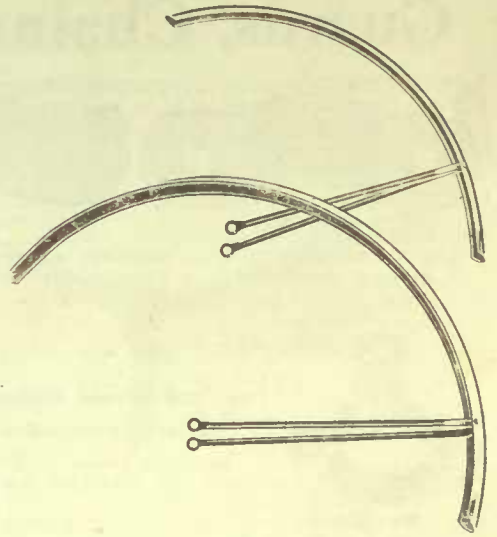
C.C.M.

- No. 843—Rear Guard only, for rigid frame Each
 - No. 878—Rear Guard only, for hygienic frame Each
 - No. 886—Oval flaps only Per dozen
 - No. 887—Braces only Per dozen
 - Extra for gold striping on above Per pair
 - Extra for maroon and gold striping on above Per pair
 - Extra for other colors with gold striping Per pair
- NOTE.—Only black and maroon guards carried in stock; other colors made to special order.**

Guards Steel, Mud

C.C.M., with flaps. Black enamelled steel guards, equipped with heavy leather oval flaps and steel braces, as supplied on C.C.M. Grade A Bicycles.

- No. 840—Front and Rear, with flaps, for rigid frame, *226* Per pair
- No. 841—Front and Rear, with flaps, for hygienic frame Per pair
- No. 842—Front Guard only, with flap.. Each



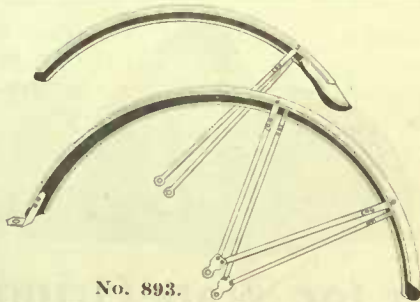
Comfort, Less Flaps

- No. 885—Front and Rear, less flap, for rigid frame Per pair *2750*
 - No. 884—Front Guard only, less flap, for rigid frame Each
 - No. 843—Rear Guard only, less flap, for rigid frame Each
 - No. 887—Braces only Per dozen
 - Extra for gold striping on above. Per pair
 - Extra for maroon and gold striping on above Per pair
 - Extra for other colors with gold striping. Per pair
- NOTE.—Only Black and Maroon Guards carried in stock; other colors made to special order.**



Tubular Rivets

For C.C.M. Mud Guard Flaps Per 100 \$0.60



No. 893.

- DOUBLE BRACE MUD GUARDS, for Model "W." C.C.M. Motorbike.**
- No. 893—Front and Rear, with flap, double brace on rear guard. Black Per pair
 - Extra for green and gold stripe, or red with green stripe, the two standard colors of C.C.M. Motorbike Per pair

Guards, Chain, Metal



Metal Chain Guard, with Parts.

- No. 838—Complete with fittings Each



No. 839.

- Adjustable to stretch of chain and to difference of length between centres of axles.
- No. 839—With attaching parts Each

Chain Guards, C.C.M.

As equipped on C.C.M. Ladies' Bicycles.

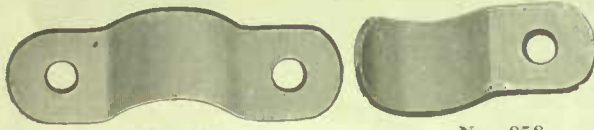
Metal Disc type, as illustrated, completely enclosing sprocket, and with continuous maple rears, eyeletted ready for lacing.

- No. 889—Complete with fittings, full black enamel. Each
- Only Black and Maroon Chain Guards in stock; other colors made to special order.



C.C.M. Chain Guard.

Guards, Chain and Dress Guard Parts



No. 857.
Top Connection, including Bolts and Nuts Doz.

No. 858.
Bottom Connection, including Bolts and Nuts Doz.



No. 860.

No. 860—Front Connection, nickel plated Dozen



No. 861.

No. 861—Rear Connection, nickel plated Dozen



No. 863.

No. 863—Lacing Loops, nickel plated.

Doz. pr..



No. 859.

No. 859—Front Connection, complete with round head machine screw ... Per doz.



No. 862.

No. 862—Dress Guard Brace, round, nickel plated (25 in package) Dozen

Guard Lacing, Silk



(Made in Canada)

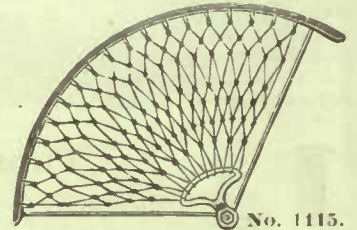
Supplied in 18-yard hanks, in black or in Cleveland brown.

Black silk guard lacing is standard equipment on all 1917 and 1918 C.C.M. Bicycles. Cleveland Brown was standard equipment on 1916 bicycles.

- No. 1105—Black** Per doz.
- No. 1106—Cleveland brown** Per doz.

Guard Lacing, Detachable

Each net is firmly attached to a nickel plated bracket or clip, which is designed to be placed beneath the nut on the rear axle. These nets are water-proof.



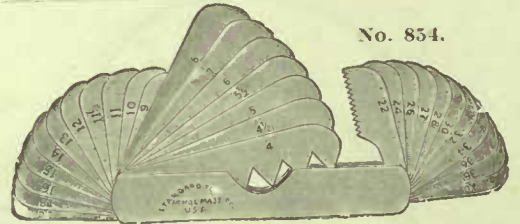
No. 1115.

- No. 1115—Per pair** (1 doz. in box, assorted)

Gauge, Screw Pitch

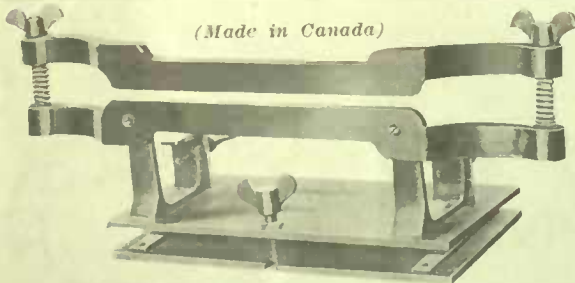
For gauging the pitch of inside and outside threads. All pitches from 4 to 40.

- No. 854—Price** 22.00 Each



No. 854.

(Made in Canada)



Holder for Skate Grinding

An adjustable, easily operated Skate Grinding Holder, which is accurate. The bottom plate is fitted with ball bearings, which make it run very easily. Improved design.

- No. 881** Each

Hack Saw Frames



(Made in Canada)

Lock Extension—Made of best quality steel, hand-somely finished and nicked. Takes blades from 8 to 12 inches, inclusive. One blade supplied.

- No. 18020—(2 in box)** Each

Hack Saw Blades



Flexible Backs

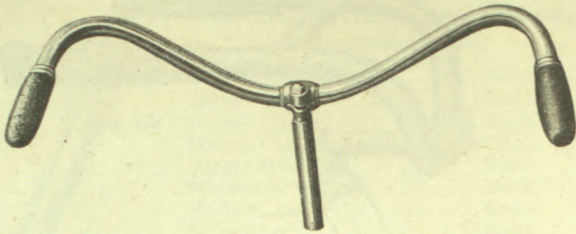
The teeth only are hardened, the back remaining soft, i.e., not tempered. The blade will neither snap nor break. Supplied in 18 teeth to the inch for ordinary work, and 32 teeth for cutting tubing. All blades come in packages of 72 each.

- No. 18011—8", Coarse** Dozen
- No. 18012—9", Coarse** Dozen
- No. 18013—10", Coarse** Dozen
- No. 18014—11", Coarse** Dozen
- No. 18015—12", Coarse** Dozen
- No. 18006—8", Fine** Dozen
- No. 18007—9", Fine** Dozen
- No. 18008—10", Fine** Dozen
- No. 18009—11", Fine** Dozen
- No. 18010—12", Fine** Dozen

Prices Subject to Change Without Notice.

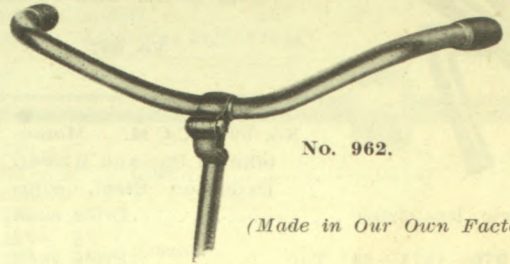
Handlebars

For illustrations of H.B. Stems separately and for size specifications of H.B. Tops, see following pages.



No. 955. (Made in Our Own Factory)

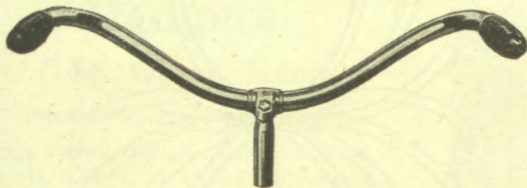
- No. 955—(5 1/2)—C.C.M. Regular H. Bar and Post Complete, less Grips Price, each 2606
- No. 956—20" Top Price, each 2907
- No. 957—C.C.M. Plain Stem. 7/8 x 5" long. Price, each 4752



No. 962.

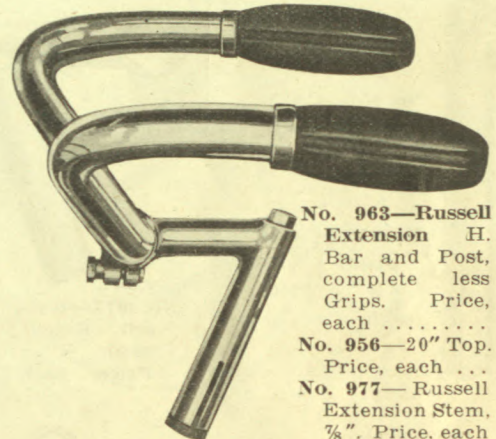
(Made in Our Own Factory)

- No. 962—Sills Hygienic H. Bar and Post, less Grips Price, each 22508
- No. 956—20" Top Price, each 4905
- No. 964—Sills Hygienic Stem. 7/8 x 5 1/2" long. Price, each 4200



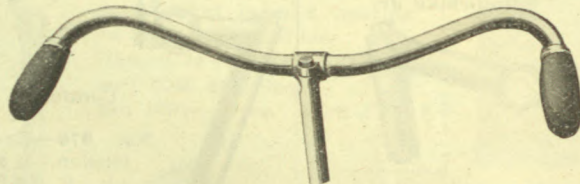
No. 953. (Made in Our Own Factory)

- No. 953—C.C.M. Regular (24" Top) H. Bar and Post, less Grips Price, each 51757
- No. 960—24" H. Bar Top Price, each 51000
- No. 958—C.C.M. Plain Stem, 7/8 x 6 1/2" long. Price, each 5804



No. 963—Russell Extension H. Bar and Post, complete less Grips. Price, each
 No. 956—20" Top. Price, each ...
 No. 977—Russell Extension Stem, 7/8". Price, each

No. 963.

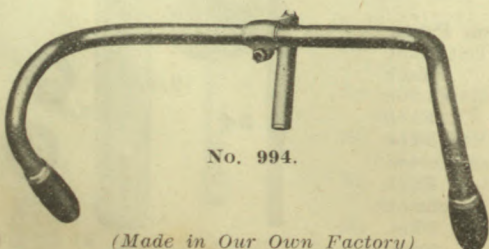


No. 965.

- No. 965—Comfort H. Bar and Post, complete less Grips Price, each 81150
- No. 966—Comfort Top, 20" Price, each 4786
- No. 979—Comfort Plain Stem, 7/8 x 5 1/4" Price, each 9489

No. 968.

- No. 968—Comfort Extension H. Bar and Post, complete, less Grips Price, each 21256
- No. 966—Comfort Top, 20" Price, each 2757
- No. 970—Comfort Extension, 7/8 x 4 1/2" x 2 3/4" extension..... Price, each 4552



No. 994.

(Made in Our Own Factory)

- No. 994—C.C.M. Racing H. Bar and Post, complete, less Grips Price, each
- No. 974—(25)—17" H. Bar Top Price, each 91252
- No. 977—Russell Extension Post, 7/8" Price, each 81203

"The Dealers' Interests Are Our Interests."

Handlebars (Continued)



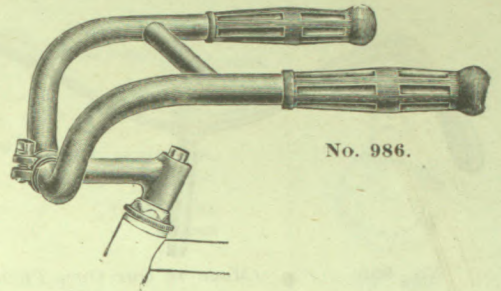
(Made in Our Own Factory)

No. 997.

No. 997—C.C.M. Motorbike H. Bar and Russell Extension Stem, complete, less Grips Price, each

No. 976—(27)—20" Top Price, each

No. 977—Russell Extension, 7/8" Price, each



No. 986.

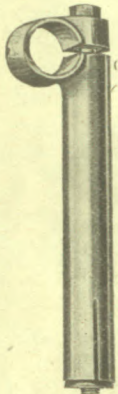
No. 986—"Motorbike Junior" H. Bar and Extension Stem, less Grips Price, each

No. 987—"Motorbike Junior," Top only. Price, each

No. 988—Stem only, 7/8". Length 4". Extension 4 1/4" forward, 1" downward Price, each

Handlebar Posts

(Made in Our Own Factory)

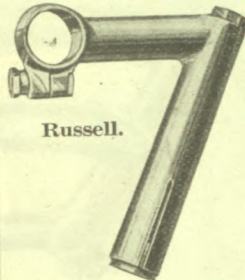


C.C.M.

No. 957—C.C.M. plain. 7/8 x 5".

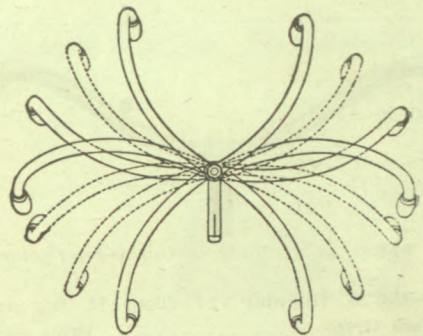
Price, each. 8750

No. 958—C.C.M. plain. 7/8 x 6 1/2". Price, each 5806



Russell.

No. 977—Russell Extension. 7/8" Price, each 6202



No. 969—Kelly Extension H. Bar and Post, complete, less Grips Price, each

B8—(Double row teeth) right side arm. Price, each

B8a—(Single row teeth) left side arm. Price, each

No. 996—Kelly 2 1/2" Extension Stem. Price, each

Gooseneck.



No. 985—Gooseneck Extension, stem 7/8". Price. Each

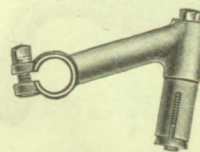


No. 989.

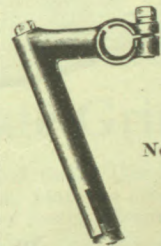
The new Extension Stem, which promises to be popular.

No. 989—Extension, 7/8" Each 3806

Motorbike Jr.



No. 988—"Motorbike Jr." Stem, 7/8 x 4 x 4 1/4" forward, 1" downward. Price, each



Comfort.

No. 970—Extension, 7/8 x 4 1/2 x 2 3/4" extension. Price, each.

Comfort.
No. 984—Extension, 7/8 x 9 x 2 3/4" extension. Price, each 3815

COMFORT, PLAIN.



No. 979—Plain, 7/8 x 5 1/4" Each 443

No. 967—Plain, 3/4 x 5 1/4" Each 3513

No. 978—Plain, 1 1/8 x 5 1/4" Each

No. 971—Plain, 1 x 5 1/4" Each 2804

No. 972—Plain, 3/4 x 9" Each

No. 982—Plain, 1 1/8 x 9" Each

No. 983—Plain, 7/8 x 9" Each

KELLY STEMS.

No. 996—"Kelly" 2 1/2" Extension Stem. Price, each

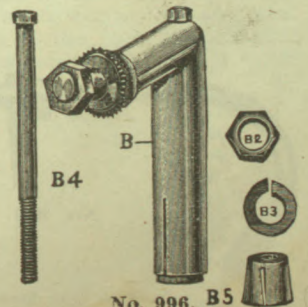
"Kelly Stem Parts."

B2—Forward Extension Stem Nut Each

B3—Forward Extension Stem Washer Each

B4—Forward Extension Stem Expander Screw. Each

B5—Forward Extension Stem Expander Plug. Each



No. 996. B5

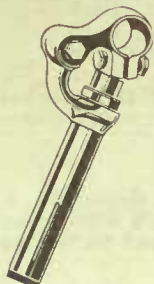
Handlebar Post

(Made in Our Own Factory)

No. 964—Sills' Hygienic, 7/8" x 5 1/2"Each

EXTRA PARTS Sills' Hygienic Handlebar Post.

- Post (stripped)Each
- Hinge ClampEach
- Hinge Clamp BoltEach
- Hinge Clamp Bolt NutEach
- Hinge BoltEach
- Hinge Bolt NutEach
- Hollow BoltEach
- ExpanderEach
- PlungerEach
- SpringEach



No. 964.

Handlebar Tops

Width. Forward Raise Price. Bend. or Drop. Each.

No. 956—(C.C.M.)	20"	2"	4"	
No. 960—(24)	24"	2"	5"	
No. 974—(25)	17"	1 3/4"	5 3/4"	
No. 976—(27)	20"	0"	6"	
NOTE.—All of the above tops are made in our own Factory.				
No. 966—Comfort	20"	1 1/4"	3"	
No. 987—"Motorbike Jr."	20 1/2"		4"	



- No. 286—4" } Dozen.....
- No. 287—5" }
- No. 288—6" }
- No. 289—7" } Dozen.....
- No. 290—8" }
- No. 291—9" }
- No. 292—10" } Dozen.....
- No. 293—12" }
- No. 307—Expander Plugs. per dozen.....

Handlebar Bolts (with Expander Plug)

Bolts (Handlebar) with Expander Plug—These Bolts are manufactured from carefully selected steel, and are nicely finished. They have fine hexagon nickelled heads, and can be supplied in the following lengths:

Extra Parts For C.C.M. Crank Hanger

Hangers

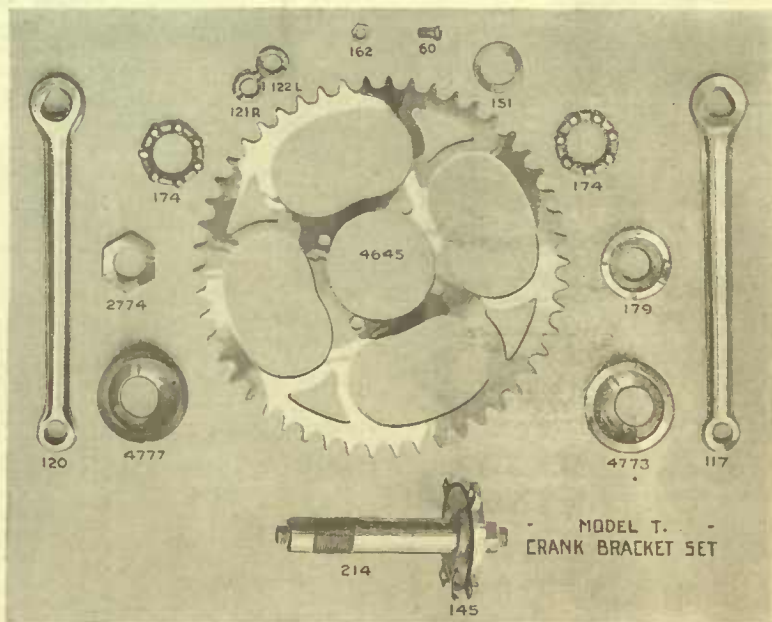
C.C.M. Crank Hanger

(Model "T," 1917 and 1918.)

The Crank Hanger is the heart of a bicycle, and it is therefore essential that it be designed on correct principles and carefully tooled and machined.

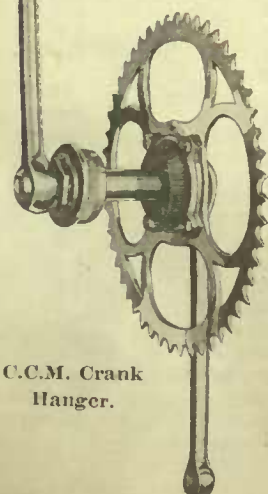
C.C.M. Cranks are drop forgings. Crank Hanger Cups and Cones are turned from bar steel, and ball races are ground perfectly true and polished. The machining is carefully and correctly done, resulting in perfect adjustment. The Cranks fit on the axle on a slight tapered bearing on three flat slides. This Hanger is regular equipment on C.C.M. Bicycles.

No. 1051—Price, each 5 5/8 - 2 5/6



(Made in Our Own Factory)

- 1916, 1917 and 1918 Models.
- No. 214—Axle used 1916/17/18.Each 2 1/8 - 5 5/8
- No. 145—Stationary Cone used 1916/17/18Each 2 3/8 - 5
- (Stationary Cone assembled on axle. See cut.)
- No. 179—Adjusting Cone used 1916/17/18Each 6 3/8 - 4
- No. 174—Ball Cages (32) less balls (1/8 ball used), used 1916/17/18Doz. 6 1/4 - 4
- No. 2774—Lock Nut, used 1916/17/18Each 2 1/8 - 3
- No. 151—Lock Nut Washer, used 1916/17/18Each 2 6/8 - 8
- No. 117R.—Right-hand Crank, used 1916/17/18 4 1/8 - 4
- No. 120L.—Left-hand Crank, used 1916/17/18 3 1/8 - 5
- No. 121R.—Right-hand Crank Jamb Nut, used 1916/17/18Each 1 1/2
- No. 122L.—Left-hand Crank Jamb Nut, used 1916/17/18Each 1 1/2
- No. 4645—Sprocket, 50 tooth, 1/2" pitch, 3/8" wide, used 1916/17/18 Each 1 1/4 - 3 1/2
- No. 60—Sprocket Bolt, used 1916/17/18Doz. 2 3/8 - 1 1/2
- No. 162—Sprocket Bolt Nut, used 1916/17/18Doz. 3 1/8 - 5
- Steel Balls—5/16, used 1916/17/18.Per gross 2 1/8 - 3 1/2
- Coupler and Ball Cases (ball bearing sleeve), used 1916 only (not shown in plate)Each 2 1/8 - 3 1/2
- Ball Case Collar—(Ball Retainer washer), used 1916 only (not shown in plate)Each 2 1/8 - 3 1/2
- No. 4777—Right Cup (black finish), used 1917 and 1918 only, model TEach 2 1/8 - 3 1/2
- No. 4773—Left Cup (nickel plated finish), used 1917 and 1918 only, model T.Each 2 1/8 - 3 1/2



C.C.M. Crank Hanger.

(Made in Our Own Factory)

"The Dealers' Interests Are Our Interests."

HANGERS, Extra Parts for Hercules Crank Hanger

For replacement on Model "F" Bicycles.

Cranks and Axle (one-piece)	Each
Stationary Cone	Each
Adjusting Cone	Each
Lock Nut	Each
Lock Nut Washer	Each
Ball Cups	Each
Ball Cage (No. 321), less balls	Doz.

(Made in Our Own Factory)

Balls, $\frac{5}{8}$ "	Gross
Dust Shield	Each
Sprocket, 50 x $\frac{1}{2}$ x $\frac{1}{8}$ "	Each
No. 1911—Special Stationary Cone Spanner for "Hercules" Hanger	Each
Width of Hanger	2 $\frac{31}{64}$ inches
Outside diameter of Ball Cups	1 $\frac{61}{64}$ inches

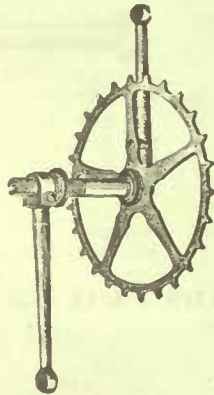
HANGER, Stevens' Repair

The only Hanger which will fit absolutely every size bracket. One size does it all.

This is a two-piece Hanger, with shaft milled flat on one side long enough to reach through any old style hanger.

The crank shaft and left hand crank are threaded. After adjusting the cones, screw left crank up against lock nut, put in cotter pin and saw off the shaft to desired length. All sizes of cups and cones to fit same are carried in stock.

In ordering, it is advisable to send sample of bracket cup, or, where that is not possible, the exact inside diameter of the crank bracket.



Cones—No. 551/2 supplied with Group No. 1, No. 533/4 with Group No. 2, No. 555/6 with Group No. 3, No. 557/8 with Group No. 4, and No. 559/60 with Group No. 5.

Price, complete with Cups (one in box).....	Each
Price, less Cups	Each
Cups, Nos. 501-521	Per pair
Cones, Nos. 551-560	Per pair
11/16" x 24 Lock Nuts	Each
11/16" "D" Washers	Per 100
$\frac{3}{8}$ " Cotter Pins	Dozen
Sprockets, 3/16 x 24 and 26 tooth.....	Each
Sprockets, $\frac{1}{4}$ x 24 and 26" tooth.....	Each
Right Crank and Axle	Each
Left Crank	Each

Below we give a list of all the cups and cones and their sizes, and also state which cups each pair of cones will fit. Every cup and cone has a number. Order by number.

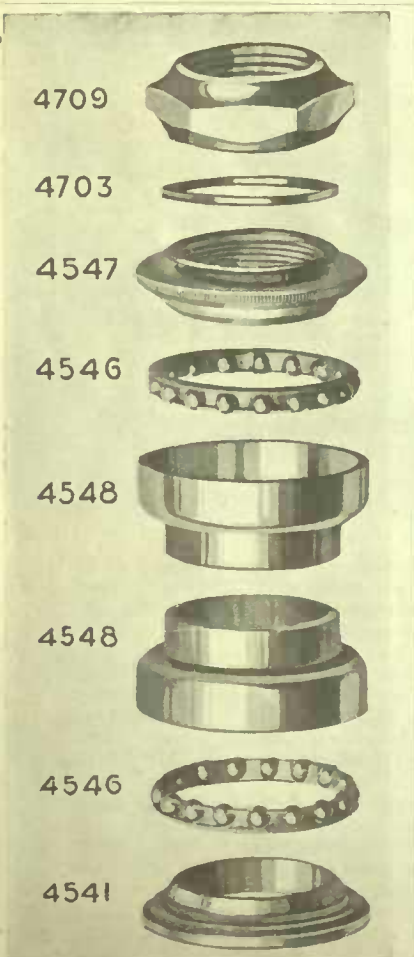
CUPS.

Cup Number.	Outside Diameter.	Size of Balls.
Group No. 1	501 1 1/2 in.	1/4
	502 1 17/32 in.	1/4
	503 1 9/16 in.	1/4
Group No. 2	504 1 19/32 in.	5/16
	505 1 5/8 in.	5/16
	506 1 21/32 in.	5/16
	507 1 11/16 in.	5/16
	508 1 23/32 in.	3/8
Group No. 3	509 1 3/4 in.	3/8
	510 1 25/32 in.	3/8
	511 1 13/16 in.	3/8
	512 1 27/32 in.	3/8
	513 1 7/8 in.	3/8
Group No. 4	514 1 29/32 in.	3/8
	515 1 15/16 in.	3/8
	516 1 31/32 in.	3/8
	517 2 in.	3/8
Group No. 5	518 2 1/32 in.	3/8
	519 2 1/16 in.	3/8
	520 2 3/32 in.	3/8
	521 2 1/8 in.	3/8

CONES.

Cone Number.	Outside Diameter.	Inside Size.	Fits Group Number.
551	1 3/8 in.	11/16x24 L.H.	1
552	1 3/8 in.	3/4x24 R.H.	1
553	1 7/16 in.	11/16x24 L.H.	2
554	1 7/16 in.	3/4x24 R.H.	2
555	1 5/8 in.	11/16x24 L.H.	3
556	1 5/8 in.	3/4x24 R.H.	3
557	1 3/4 in.	11/16x24 L.H.	4
558	1 3/4 in.	3/4x24 R.H.	4
559	1 13/16 in.	11/16x24 L.H.	5
560	1 13/16 in.	3/4x24 R.H.	5

All the cups in any one group are of the same inside diameter, and therefore all cups of one group are fitted by one pair of cones. It takes only the five pairs of cones to fit the 21 sizes of cups. There are 21 outside diameters to the cups, but only five inside diameters.



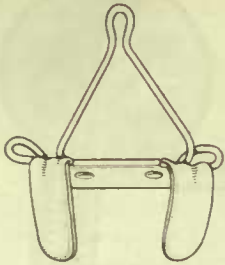
Head Fittings

(For all C.C.M. High Grade Bicycles.)

4708—The following parts made up complete	Per set
4709—Adjusting Cone Lock Nut.....	Each
4703—Adjusting Cone Lock Washer.....	Each

4547—Upper Adjusting Cone	Each
4546—Ball Cage (5/32 balls used) upper or lower (less balls).....	Each
4548—Upper or lower cup	Each
4541—Stationary Cone	Each

HOLDERS, Bicycle Wall



Bedley Top.

(Made in Canada)

Bedley—This holder is made from galvanized wire, the top holder being leather covered. It is furnished complete with brace and screws.
No. 990—Per dozen ...



Bedley Bottom.
 (Made in Canada)

"Bedley Bottom" is a plain wire holder not covered.
No. 992—Per dozen ...

The **"Gem"** is a plain holder leather covered. Screws supplied.

No. 991—Per dozen ...



Gem.

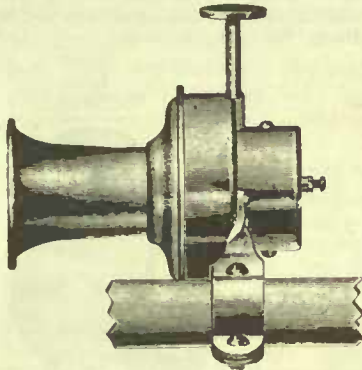
(Made in Canada)

Horns, Bicycle

(We can supply parts for Horns listed.)

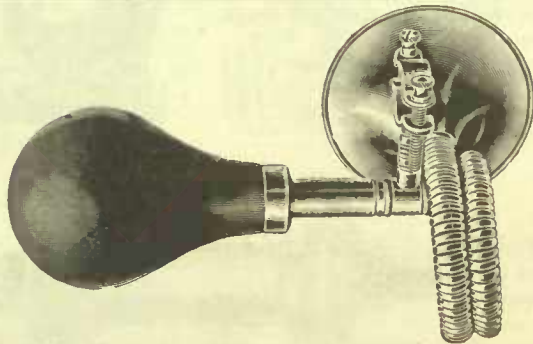
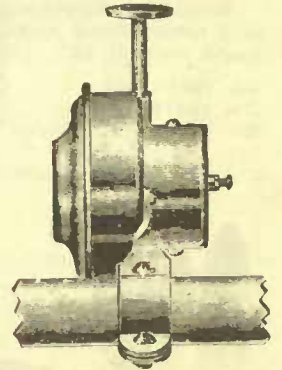
Bevins Long Distance

Hand operated Horn, substantially made, loud, penetrating tone. Black enameled, with nickel-plated bracket.



No. 1048—Without Projector, all Black. Each

No. 1049—With Projector, all Black. Each



No. 1009—Warnola—Diameter of bell 3 3/4", length over all, 10". Bends made of stiff tubing, not flexible as illustrated. Fine deep tone. Nickel-plated. No. 5 Bulb used Each
No. 1009R—Reeds for above Each
No. 1009B—Bulbs for above Each

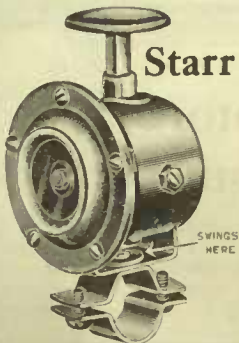


No. 999.

No. 999—(26) Bicycle Horn, diameter of bell 2 3/4", length over all 8 3/4", fixed clip, highly nickel-plated Each

No. 1015—Reeds for above Each

No. 1016—Bulbs for above Each



Starr

No. 1052.

Medium priced effective Warning Signal, black enamel finish, complete with attaching bracket.
No. 1052—(One in a carton). Each



"Screech Owl"

No. 1003—"Screech Owl." A very superior "Siren," nickel-plated. Fitted with ball bearings. (2 in box) Each

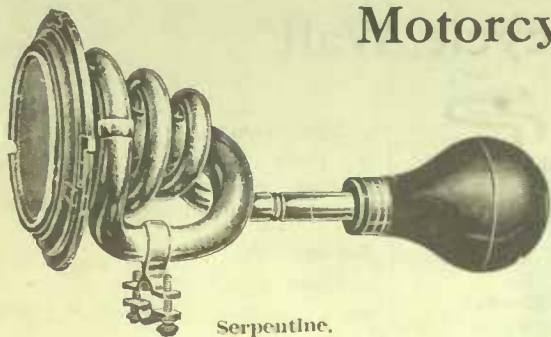


Whangdoodle

No. 998—Whangdoodle Bicycle Vibrator Horn.

Black enamel, with nickel-plated chain. (One in box). Price, each

Motorcycle Horns



Serpentine.

Specially recommended for motorcycle use. Very deep note. Finest nickel finish. Diameter of bell, 3 7/8", length over all, 12". (One in carton.)

- No. 1007 (92) Each
- No. 1007R—Reeds Each
- No. 1007B (6)—Bulbs Each



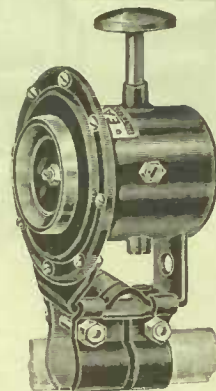
Warnola.

Diameter of bell, 3 7/8". Length over all, 10". Fine, deep tone. Bends made of stiff tubing, not flexible as illustrated. Nickel-plated. No. 5 bulb used.

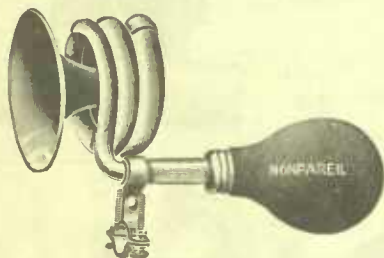
- No. 1009—(18B) Each
- No. 1009R—Reeds Each
- No. 1009B (5)—Bulbs Each

E. A.

Size 4 x 5 1/2"; weight two pounds. Supplied with two brackets for attaching to handlebar or top bar of frame of Motorcycle. To meet the demand for a horn for Motorcycles finished in service green or khaki, this model can now be supplied in Khaki as well as Black and Nickel.



- No. 1022—Black and nickel Each
- No. 1023—Khaki Each



Nonpareil.

Fine nickel finish. Diameter of bell 4 1/4". Length over all, 10". (3 in box.)

- No. 1020 (102)— Each
- No. 1007R—Reeds Each
- No. 1007B (6)—Bulbs Each

Comfort Hubs

(Made in Our Own Factory)



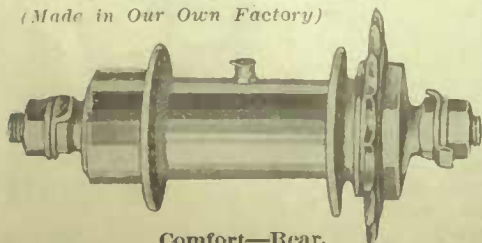
Comfort—Front.

These are high grade Hubs, turned from best bar steel stock. Bearings are accurately ground after being hardened. Fitted with ball retainers and dust washers. Absolutely dust proof. Workmanship and finish are of highest quality. Fitted with sprockets. 36 spoke hole front hubs will be supplied unless otherwise ordered.

These hubs are fitted with spring ball type oiler.

- No. 1036—(Comfort) Front, 36 hole Each
- No. 1032—(Comfort) Front, 32 hole Each
- No. 1030—Rear Each

(Made in Our Own Factory)



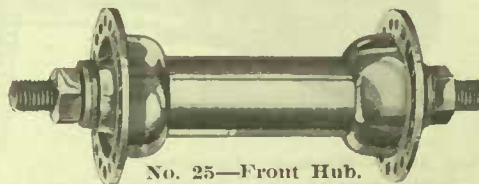
Comfort—Rear.

Hubs

(Made in Our Own Factory)

No. 25 Front Hubs—High grade pressed Hub. Barrel made of tubing, with ends pressed on. Nicely plated. 32 and 36 hole.

- No. 1047—Drilled 36. Each



No. 25—Front Hub.

Sulky Hubs

(Made in Canada)

The Knockout Axle Hub is so much more satisfactory that we have discontinued the plain axle hub.

No. 1040—A superior hub with special features and finish. Has knockout axle, which makes it easy to keep clean. Drilled for 36 spokes.

- No. 1040 Each
- No. 1041—Axle Each
- No. 1042—Cone Each
- No. 1043—Cup Each
- No. 1044—Axle Sleeves Each

Motorcycle Front Hubs

- No. 1015—Drilled 36 .. Each
- No. 1046—Drilled 40 .. Each

Hub Parts

See page 13.

Lamps

It Pays to Push Lamps

A GOOD LAMP for the Bicycle is a **necessity** rather than a **luxury**. Many Towns are passing By-laws compelling Bicycles as well as other vehicles to carry a light. Even where there is no legal compulsion, public opinion is strongly in favor of the use of lamps as a "Safety First" measure.

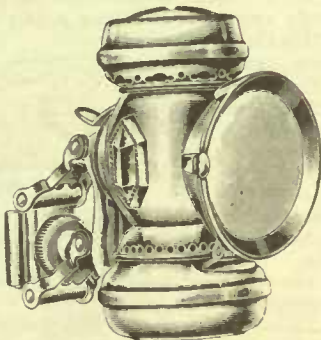
This means that it will pay the Bicycle dealer well to push strongly for lamp business.

In the "Old Sol" line we offer Dealers a wide range of well made, attractive lamps for both Bicycles and Motorcycles. In spite of the extremely high cost of both labor and materials **the prices have been considerably reduced** and "Old Sol" lamps are without doubt the best value to be had at the present time.

Bicycle Oil Lamps

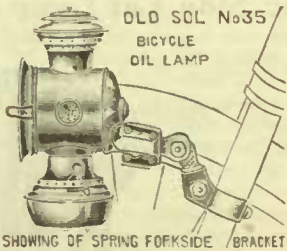
Kingfisher — A well-made, reliable English lamp of good size and appearance. Brass nickel-plated; fitted with a wind-proof head and convex lens; complete with bracket and red side jewels. Side jewel hinged. Burns C.C.M. Burning Oil, not kerosene.

No. 1122 (25) —
(One in box)
..... Each



Kingfisher.

Equipped with Spring Shock Absorbing Bracket. Made from brass, nickel finish. Burns about 14 hours on one filling. Red and green side jewels. Polished reflector. Height 6 3/4", diameter of door 3 3/4", weight 1 lb. 2 oz. Complete with bracket. Burns kerosene (coal oil). No. 1119 (35) — (One in box) Each

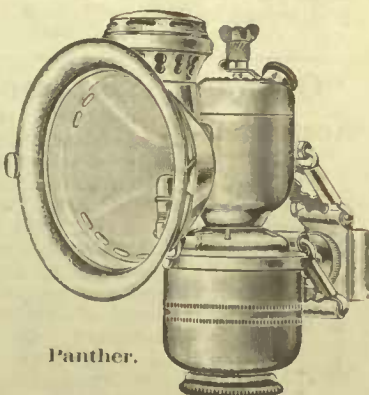


OLD SOL No. 35 BICYCLE OIL LAMP SHOWING OF SPRING SHOCK ABSORBING BRACKET

Bicycle Carbide Lamp

Panther—A good English lamp at a low price. Made of all brass, nickel-plated and highly polished. Burns with a steady light. Complete with bracket. (One in box.)

No. 1125 (20) — (No. 1153 Burner used)
..... Each

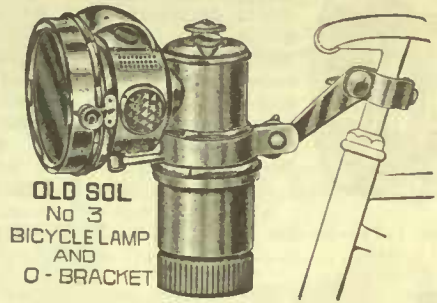


Panther.

Notice—Owing to existing war conditions, it is difficult to secure Panther Lamps, and we cannot guarantee delivery.

"Old Sol"

Bicycle Carbide Lamps



OLD SOL No. 3 BICYCLE LAMP AND O-BRACKET

Large, handsome Bicycle Lamp of motorcycle type. Cannot blow out.

Height 7". Carbide capacity 6 oz. Diameter of door 4". Burns 8 hours on one filling. Heavy brass, nickel-plated, with black enamelled Bracket. Red and green side jewels. Polished reflector.

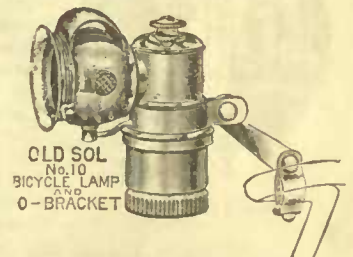
No. 1141 (3) — Price with Bracket (one in box)
..... Each

No. 1140 (10)

Safe, attractive gas lamp, which requires very little care. The improved process generates gas at regular intervals. Will not leak or corrode.

Height 6 1/4". Carbide capacity 5 oz. Diameter of door 3 1/4". Burns 6 to 7 hours on one filling. Heavy brass, nickel-plated, with black enamelled bracket. Red and green side jewels. Polished reflector.

No. 1140 (10) — Price with bracket (one in box) Each



OLD SOL No. 10 BICYCLE LAMP AND O-BRACKET

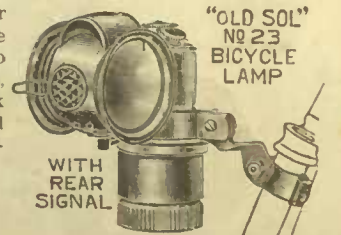
Showing Red Rear Signal.

No. 1142 (23)

A powerful front white light and a red rear signal, which is a protection to rider from vehicles approaching from rear. For use on carriages and other vehicles.

Height 6 1/2". Diameter of door 3 3/4". Carbide capacity 5 oz. Burns 6 to 7 hours. Heavy brass, nickel-plated, with black enamelled Bracket. Red side jewel. Polished reflector.

No. 1142 (23) — with Bracket (one in box) Each



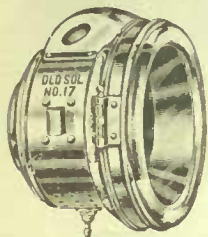
WITH REAR SIGNAL

No. 1142 (23).

"The Dealers' Interests Are Our Interests."

Lamps (Continued)

"Old Sol" Gas Lamps, Motorcycle

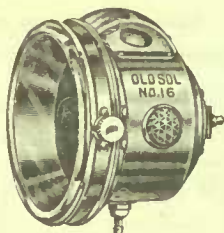


Bodies made from one-piece heavy gauge brass, nickel-plated. Door fitted with ball pin hinges. Front diameter 7 1/2", height 7 3/4", width 8 1/4", depth 5 1/2". Genuine 5" Mangin mirror lens. Distance between props 6 1/2". Fits all Old Sol Standard Brackets. Regular 1/2 ft. burner used. Without bezel shown in illustration.

No. 1164 (17)—Black and Nickel, with A. or C. Brackets. (1 in box). Price, each
 No. 1165 (17)—Nickel, with A. or C. Brackets. (1 in box) Price, each

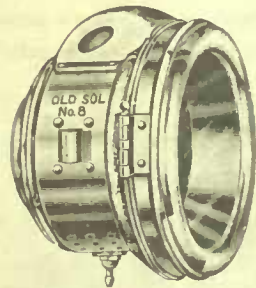
Identical in size with No. 1164 (17). Fitted with rear socket for spade bracket. Red and green side jewels. Regular 1/2 ft. burner used. Without bezel shown in illustration. Takes 5" lens.

No. 1161 (16)—Black and nickel (less bracket) (one in box) Each
 No. 1162 (16) — Nickel (less bracket) (one in box) Each



No. 1161 (16).

"Old Sol" Gas Lamps, Motorcycle



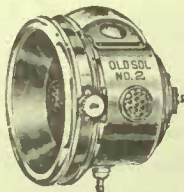
No. 1166 (8).

The leader of the "Old Sol" line. Front diameter 8 1/2", height 9", width 9 1/4", depth 6 1/2". Fitted with genuine 6" Mangin mirror lens. Distance between props 7 1/2". Fits all "Old Sol" standard brackets. Regular 1/2 ft. burner used. Without bezel shown in illustration.

No. 1166 (8)—Black and nickel, with A. or C. bracket (one in box) Each
 No. 1167 (8)—Nickel, with A. or C. bracket (one in box) Each

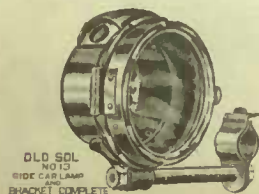
Popular for all classes of motorcycles. Front diameter 6 1/2". Genuine 4 1/2" Mangin mirror lens. Height and width 7 1/2". Depth 5 1/4". Equipped with rear socket for spade bracket. Without bezel, as shown. 3/8 ft. burner used.

No. 1163 (2)—Nickel only (less bracket) (one in box) Price, each

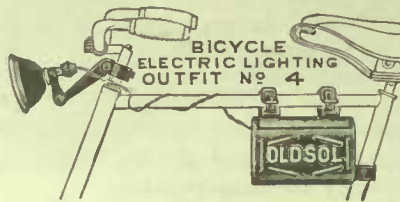


A splendid side-car lamp, having red rear signal and red and green side jewels. Door 4". Polished reflector, 1/6 ft. burner used. No bezel.

No. 1168 (13)—Nickel, complete with Bracket. (One in box) Price, each



"Old Sol" Electric Lamps, Bicycle



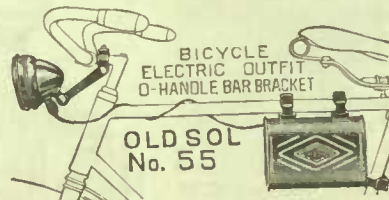
Will appeal to many boys who have been looking for a real electric lamp at a reasonable price. Has large attractive headlight with bracket for handlebar.

Lamp all black enamelled. Uses two regular No. 6 batteries. Supplied with bulb 2.8 volts. 2 C.P. double contact, Ediswan base. Face of lamp 5" diameter. Lamp, Wiring and Bracket packed in one box. Dry Cell Container in another box.

No. 1144 (4)—(Less Battery) Price, each

High grade dependable electric lamp, which will satisfy any rider wishing a Dry Cell outfit.

This lamp has black enamelled body, with nickel-plated door. Uses two regular No. 6 batteries. Supplied with bulb 2.8 volt. 2 candle-power, single contact, Ediswan base.



Diameter of door 4 1/2". Highly polished silver reflector.

Lamp, Wiring and Bracket packed in one box. Dry Cell Container in another box.

No. 1145 (55)—(Less Battery) Price, each

"Old Sol" Electric Side Car Lamp

Without a headlight on the side car you are in danger of being struck by an automobile or vehicle, as it is difficult for the driver to judge the space you require. With a lamp on the side car and one on the motorcycle you will secure as much room as an automobile.

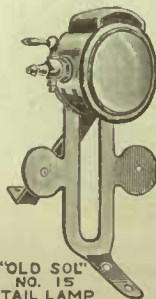


Very neat bullet shaped lamp, 4" in diameter.

No. 1173 (40)—Black and nickel, 6 V., 2 C.P., double contact, Ediswan bulb used. Price, each

"Old Sol" Tail Lamp, Motorcycle

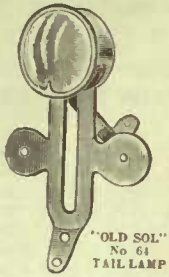
Acetylene Gas



Substantial Gas Tail Lamp and License Holder, for rear guard of motorcycle. Red glass 2 5/8" diameter; 1/8 foot burner used. Wire screen in base of lamp for illuminating License Bracket and for ventilation.

Off and on valve in gas tube for regulation of gas. Bracket with side arms for License Bracket, and holes with bolts and nuts for attaching to mudguard. Red or grey finish.

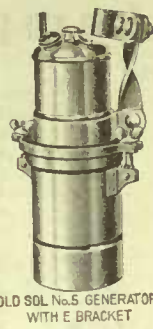
No. 1169 (15)—Service Green, for Harley-Davidson and Excelsior Motorcycle (one in box) Price
 No. 1170 (15)—Red (one in box) Price



"Old Sol" Electric Tail Lamp

Has 3" rear red signal and license plate bracket, with bolts and nuts. White celluloid in base of lamp to illuminate license plate. 6 V., 2 C.P., single contact, Ediswan base bulb used. Black finish.

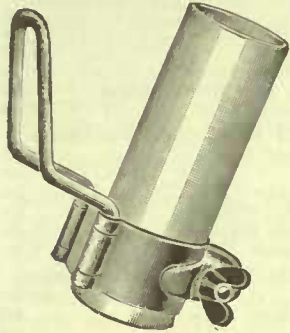
No. 1171 (64)—(One in box)Price, each



Carbide Generator

Capacity 12 oz. carbide, one pint of water, will burn "Old Sol" No. 8 for about 6 hours. Height 9", diameter 4 7/8". All nickel finish. Carbide chamber 4" high, 3" diameter.

No. 1186 (5)—With E. or H. BracketPrice, each
 No. 1198—E Bracket for FramePrice, each
 No. 1199—H. Bracket for Front ForkPrice, each

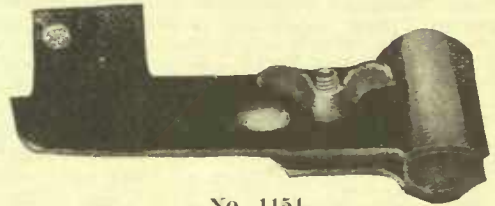


Lamp Brackets

Made of heavy sheet metal and spring steel wire, heavily nicked and polished, light and strong, adjustable, felt lined.

No. 1150 — (12 in box) ..Per dozen

Lamp Brackets, Carriage



No. 1151.

(Made in Our Own Factory)

Made from heavy sheet steel, japanned. This bracket is fitted with an adjustable clamp, easily attached to dash board.

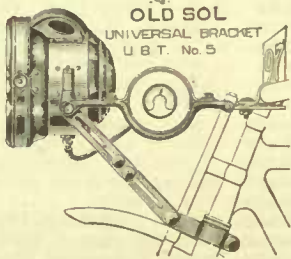
No. 1151—PriceEach

"Old Sol" Motorcycle Lamp Brackets

U. B. T. No. 5 Fork Side Clamps

Carries Prest - O - Lite Tank and Lamp. Adapted for Harley-Davidson, Henderson, Reading-Standard, Excelsior. Enamel and nickel finish.

No. 1197 (5)—(One pair in box).Price



OLD SOL UNIVERSAL BRACKET U. B. T. No. 5

Lamp Burners, Acetylene Gas

No. 1155—Solar Burners for Gas LampsPrice

No. 1152—Lava Tips. 1/4 foot. Can be used for either Solar or 20th Century Gas Lamps. 1 gross in boxPer dozen



No. 1152.

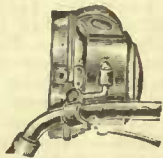


No. 1155

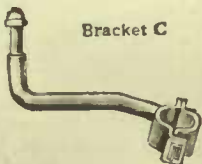
Bracket "A"

Can be fitted in front of fork head or behind it, as shown in illustration. Will fit practically all motorcycles, including Indian, Henderson, Reading-Standard, Sears, Excelsior, Iver Johnson, Thor, Flanders, Pope, Yale, Pierce, Harley-Davidson, etc.

No. 1194 (A)—Price ..Per pair



Bracket "A" Behind Head

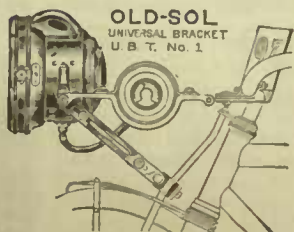


Bracket C

Bracket "C"

Will fit Harley-Davidson, Pope, Yale, Emblem, Merkel, Excelsior, etc.

No. 1195 (C)—Price, per pair



OLD-SOL UNIVERSAL BRACKET U. B. T. No. 1

U. B. T. No. 1 Truss Clamps

Carries Prest - O - Lite Tank and Lamp. Adapted for Indian, Excelsior, Pope, Thor, Merkel, Dayton. Enamel finish.

No. 1196 (1)—Price

"Old Sol" Burners

No. 1206 (0S106)—1/6 foot, for "Old Sol" Bicycle Carbide (Gas) LampsEach

No. 1207 (0S200)—1/2 foot, for "Old Sol" Motorcycle Carbide (Gas) Lamps Nos. 1161 (16), 1164 (17), and 1166 (8).Each

No. 1208 (0S39)—3/8 foot, for "Old Sol" Motorcycle Carbide (Gas) Lamps Nos. 1163 (2) and 1168 (13)Each

P. & H.

This burner gives a flat flame from a single gasway. It can be easily cleaned. It is used on all Powell and Hammer Bicycle gas lamps.

No. 1153—Price, doz. (1 gross in box)



No. 1153.



Bray's Deto

No. 1154—Price, doz. (1 gross in box) ...

Lamp Parts

Searchlight Lamp Parts

No.	Description.	Price Each.
1	Top	\$2.60
2	Top Cap	.40
3	Reflector, complete	.40
4	Screw and Washer for Reflector	.14
5	Window and Wires	.48
6	Lens	.42
7	Lens Wire	.14
8	Font	2.80
9	Filler Cap	.30
10	Hanging Tube Cap	.20
11A	Burner with Metal Collar and Lava Tip	.32
12	Presser Spring	.20
13	Carbide Cup	1.00
14	Bracket	1.00
15	Head Clamp	.40
16	Bracket Clamp	.40
17	Bracket Set Screw	.14
18	Bracket Adjusting Screw	.14
19	Head Clamp Screw and Wing Nut for Bracket	.30
20	Rubber Gasket	.20
22	Carbide Gas Strainers	.08

NOTE.—Always specify for Searchlight Gas Lamp when ordering above parts.

Powell & Hanmer Lamp Parts

Panther	No.	1125
Panther Self-Lighter, (Not Listed)	No.	1126
Panther Duplex, (Not Listed)	No.	1128
Revenge, (Not Listed)	No.	1129
P. & H. (Not Listed)	No.	1130
Demon	No.	1120
Referee, (Not Listed)	No.	1121
Kingfisher, (Not Listed)	No.	1122
P. 1	Glasses for Nos. 1125, 1126, 1128	Each \$0.24
P. 1A	Glasses for No. 1129	Each .24
P. 2	Glasses for No. 1130	Each .54
P. 3	Glasses for No. 1120 (with rims)	Each .36
P. 4	Glasses for No. 1121 (with rims)	Each .48
P. 5	Glasses for No. 1122	Each .48
P. 6	Burner No. 1153. (Screw-in)	Doz. 1.60
P. 7	Water Caps	Each .20
P. 8	Valves	Each .36
P. 9	Valve Screws	Each .24
P. 10	Zinc Tubes	Each .24
P. 11	Filter Pads	Each .24
P. 12	Large Rubber Washers	Each .24
P. 13	Small Rubber Washers	Each .10
P. 14	Adjustment Screws	Each .24
P. 15	Springs and Plates	Each .24
P. 16	Pad Plates and Nuts	Each .40
P. 17	Back Springs	Each .10
P. 18	Bottom Screws	Each .40
P. 19	Carbide Chambers for No. 1125	Each .40
P. 20	Carbide Chambers for No. 1130	Each .52
P. 20A	Carbide Chambers for No. 1129	Each .52
P. 21	Cross Gate	Each .24
P. 22	Smoke Cap	Each .24
P. 23	Cones for No. 1125	Each 1.40
P. 24	Cones for No. 1129	Each 2.10
P. 25	Cones for No. 1130	Each 2.80
P. 26	Pad Plates	Each .24
P. 27	Backs	Each .40
P. 28	Windups for Nos. 1120, 1121, 1122	Each .24
P. 29	Founts comp. for Nos. 1120, 1121, 1122	Each .40
P. 30	Blue Springs for No. 1120	Each .10
P. 31	Wire for Glasses	Each .10

NOTE.—When ordering any of above Lamp Parts, always give the number of lamp for which part is required.

"Old Sol" Lamp Parts

Below we list the most important replacement parts for "Old Sol" Bicycle and Motorcycle Lamps. Should you require other parts for these Lamps which are not listed, kindly send for special parts list and quotation on desired parts.

Always give number of Lamp when ordering parts.

Parts for No. 1119 (35) "Old Sol" Bicycle Oil Lamp.

OS463	Front Door Glass	\$0.20
OS1216	Reflector with hole in centre	.50
OS1224	Burner, less wick	.20
OS1226	Wick only	.20
OS1531	Retaining Band for Door Glass	.20

"Old Sol" Lamp Parts—(Continued)

Parts for "Old Sol" 1164 (17) and 1161 (16) Motorcycle Gas Lamp.

No.	Description.	Price Each.
OS200	Burner ½ ft. Standard Pillar	\$0.60
OS432	Door Glass	.30
OS433	Glass Retaining Ring	.30
OS436	Retaining Ring for Mirror Lens	.30
OS439	Burner Holder	.30
OS525	Mangin Mirror Lens, 5"	3.00
OS798	Bezel or Door Reflector	1.50

Parts for "Old Sol" 1166 (8) Motorcycle Gas Lamp.

OS30	Burner Holder	\$0.30
OS193	Door Glass, 8"	.40
OS200	Burner ½ ft. Standard Pillar	.60
OS201	Mangin Mirror Lens, 6"	3.50
OS206	Retaining Wire for Door Glass	.30
OS641	Wire Retaining Ring for Mirror Lens	.30
OS799	Bezel or Door Reflector	2.00

Parts for "Old Sol" 1163 (2) Motorcycle Gas Lamp.

OS7	Retaining Ring for Door Glass	\$0.30
OS9	Door Glass	.30
OS23	Burner Holder for Pillar	.30
OS39	Burner ¾ ft. Standard Pillar	.60
OS41	Reflector 4½". Includes frame	3.00
OS797	Bezel or Door Reflector	1.50

Parts for "Old Sol" 1168 (13) Motorcycle Gas Lamp.

OS103	Door Glass	\$0.30
OS106	Burner 1/6 ft. Standard Pillar	.40
OS530	Reflector with Hole	.50
OS1399	Retainer for Door Glass	.30

Parts for 1141 (3) "Old Sol" Bicycle Gas Lamp.

OS73	Reflector, New Style	\$0.40
OS74	Carbide Retaining Disc only	.20
OS76	Carbide Chamber only	2.00
OS84	Water Filler Cap, with Leather Washer	.20
OS107	Carbide Basket	.60
OS90	Valve Rod, complete	.80
OS94	Spring for Carbide Plate	.10
OS98	Rubber Gasket	.20
OS100	Binding Screw for Head and Generator	.20
OS103	Door Glass	.30
OS106	Burner 1/6 ft. Standard Pillar	.40
OS398	Valve Seat, Knurled	.20
OS487	Spring Retainer for Filter Plate	.10
OS489	Felt Filter	.10
OS502	Filter Retaining Plate	.20
OS628	Left Extension, Male	.40
OS629	Right Extension, Female	.40
OS638	Bracket for New Style Bolt	.80
OS1561	Valve Seat Cap, including Screen	.40

Parts for 1140 (10) "Old Sol" Bicycle Gas Lamp.

OS74	Carbide Retaining Disc only	\$0.20
OS84	Water Filler Cap, with Leather Washer	.20
OS98	Rubber Gasket	.20
OS100	Binding Screw for Head and Generator	.20
OS106	Burner 1/6 ft. Standard Pillar	.40
OS107	Carbide Basket	.60
OS398	Valve Seat, Knurled	.20
OS453	Retainer Ring for Door Glass	.10
OS467	Valve Rod, complete with Thumb and Spring	.80
OS469	Carbide Chamber only	2.00
OS475	New Style Reflector	.40
OS487	Spring Retainer for Filter Plate	.10
OS489	Felt Filter	.10
OS502	Filter Retaining Plate	.20
OS628	Left Extension, Male	.40
OS629	Right Extension, Female	.40
OS638	Bracket for New Style Bolt	.80
OS1561	Valve Seat Cap, including Screen	.40

Parts for No. 1142 (23) "Old Sol" Bicycle Gas Lamp.

OS74	Carbide Retaining Disc only	\$0.20
OS84	Water Filler Cap, with Leather Washer	.20
OS94	Spring for Carbide Plate	.10
OS98	Rubber Gasket	.20
OS100	Binding Screw for Head and Generator	.20
OS107	Carbide Basket	.60
OS398	Valve Seat, Knurled	.20
OS453	Retaining Ring for Door Glass	.10
OS454	Red Glass	.20
OS463	Front Door, Glass White	.20
OS467	Valve Rod, complete with Thumb and Spring	.80
OS469	Carbide Chamber only	2.00
OS487	Spring Retainer for Filter Plate	.10
OS489	Felt Filter	.10
OS502	Filter Retaining Plate	.20
OS1561	Valve Seat Cap, Includes Screen	.40

"Old Sol" Lamp Parts—(Continued)

Parts for 1145 (55) "Old Sol" Bicycle Electric Lamp.

No.	Description.	Price Each.
OS103	Door Glass	\$0.30
OS170	G. 8—2.8 Volt, 2 C.P. Single Contact Ediswan Base	.44
OS628	Left Extension, Male	.40
OS629	Right Extension, Female	.40
OS1399	Retainer for Door Glass	.30
OS1449	Wiring for Electric Outfit. Includes 1582	1.40
OS1511	Reflector only	1.20
OS1538	Front Fibre Insulator	.10
OS1749	Inside Battery—Connector	.20
OS1574	Battery Case, New Style for Screw	2.50
OS1575	Battery Case Cover, New Style for Screw	1.00
OS1582	Switch Plug	.60
OS1745	Paper Insulator	.10
OS1750	Paper Insulator	.20

Parts for No. 1144 (4) "Old Sol" Bicycle Electric Lamp.

OS628	Left Extension, Male	\$0.40
OS629	Right Extension, Female	.40
OS1449	Wiring for Electric Bicycle Outfit. Includes 1582	1.40
OS1469	2.8 Volt, 2 C.P. Double Contact Ediswan Base Bulb	.44
OS1538	Front Fibre Insulator	.10
OS1574	Battery Case, New Style for Screw	2.40
OS1580	Door Glass	.20
OS1582	Switch Plug	.60
OS1584	Retaining Ring	.40
OS1745	Paper Insulator	.10

Parts for No. 1173 (40) "Old Sol" Electric Side Car Lamp.

OS103	Door Glass	\$0.30
OS1119	Searchlight Socket, Double Wire, Permanent Plug	.70
OS1168	6 Volt, 2 C.P. Double Contact Ediswan Base	.44
OS1247	Reflector	1.20
OS1399	Retainer for Door Glass	.10

Parts for No. 1186 (5) Generator.

OS4	Valve Rod	\$0.80
OS84	Water Filler Cap, with Leather Washer	.30
OS94	Spring for Carbide Plate	.10
OS96	Carbide Chamber, Includes Screws only	3.00
OS101	Water Chamber, complete	4.00
OS112	Carbide Basket, with Perforated Tube	.80
OS113	Disc Plate	.50
OS115	Rubber Gasket	.20
OS398	Valve Seat, Knurled	.30
OS487	Spring Retainer for Filter Plate	.10
OS488	Felt Filtering Pad	.10
OS501	Filter Plate	.30
OS1561	Valve Seat Cap, includes Screen	.40

Parts for 1169 (15) "Old Sol" Motorcycle Tall Gas Lamp

OS453	Retaining Ring for Door Glass	\$0.30
OS454	Red Glass	.30
OS1155	Burner	.50

Parts for 1171 (64) "Old Sol" Electric Motorcycle Tall Lamp.

OS1154	Retaining Ring for Door Glass	\$0.20
OS1153	Red Glass in Frame	.30
OS1056	6 Volt, 2 C.P., Ediswan Base Single Contact Bulb	.44
OS1759	Plug and Bulb Socket	.40
OS1767	Cap for Switch Plug	.20



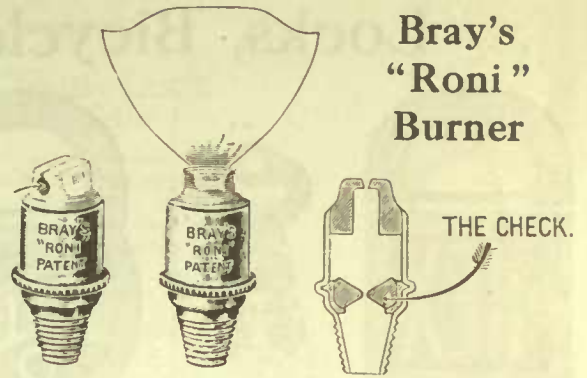
Lamp Tubing

Rubber Lamp Tubing, for connecting up motorcycle and bicycle lamps with generators.

No. 19251— $\frac{3}{16}$ " x $\frac{1}{8}$ " wall .. Per 100 ft.

"Old Sol" Burners

No. 1206 (OS106)	—1/6 foot, for "Old Sol" Bicycle Carbide (Gas) Lamps	Each
No. 1207 (OS200)	—1/2 foot, for "Old Sol" Motorcycle Carbide (Gas) Lamps, Nos. 1161 (16), 1164 (17), and 1166 (8)	Each
No. 1208 (OS39)	—3/8 foot, for "Old Sol" Motorcycle Carbide (Gas) Lamps, Nos. 1163 (2) and 1168 (13)	Each



Used on P. & H. Motorcycle Lamps. This atmospheric burner gives a flat flame from a single gasway. Has no projecting arms to fracture, or jets of flame to get out of alignment; so there is no risk of broken lens or mirrors.

Fitted with check, as illustrated, which prevents flaring when subjected to an excess of pressure.
 No. 1204—125 or 127 P. & H. Lamp, $\frac{3}{8}$ ft., 10 litres (one dozen in small carton) ... Per dozen
 No. 1205—For 120 P. & H. Lamp (not listed), $\frac{1}{2}$ ft., 14 litres (one dozen in carton) . Per dozen

Motorcycle Lamp Burners

"Alco Hexo" Burner.

Fits them all, and with hexagon base is easiest to instal. Made in $\frac{3}{8}$ and $\frac{1}{2}$ ft. gas consumptions.

No. 1200	— $\frac{3}{8}$ ft. (one dozen in box)	Per dozen
No. 1201	— $\frac{1}{2}$ ft. (one dozen in box)	Per dozen



No. 1200-1.

"Alco Cyco" Burner.

A cheaper and very popular style for Motorcycle Lamps. $\frac{3}{8}$ and $\frac{1}{2}$ ft. gas consumption. Round knurled base.

No. 1202	— $\frac{3}{8}$ ft. (one dozen in box)	Per dozen
No. 1203	— $\frac{1}{2}$ ft. (one dozen in box)	Per dozen



No. 1202-3.

Leggings, Motorcycle

Knee Length.—Well made, from good quality of waterproof canvas. Beaded edge. Fitted with fork fastener. Sizes 15 and 16.

No. 1210 — (Size 15.) Per pair.

No. 1211 — (Size 16.) Per pair.

Three-quarter length.

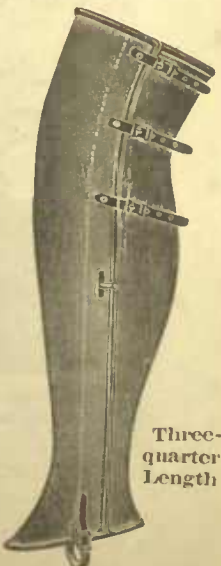
Strongly constructed of durable waterproof canvas with beaded edges. Clasp fasteners in place of strap shown in illustration.

No. 1227 — (Size 15.) Per pair.

No. 1228 — (Size 16.) Per pair.



Knee Length.

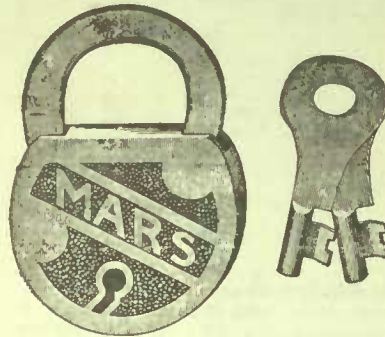


Three-quarter Length

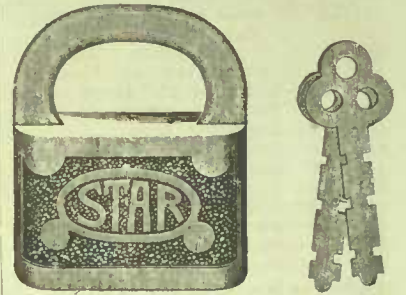
Locks, Bicycle and Motorcycle



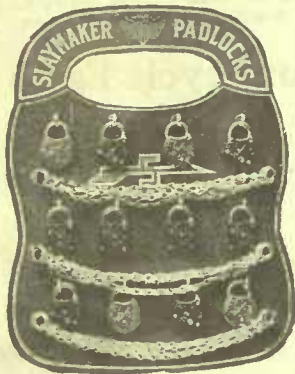
Hex Padlock.—A very popular, fast selling lock, nickel plated, supplied with two keys. Shipping weight 2 lbs. per dozen, packed one dozen locks in box.
No. 1230—(103) .. Per dozen



Mars Padlock.—Another fast selling small, safe lock. Spring opening and self-locking, with two keys. Nickel plated. Shipping weight 2 lbs. per dozen, packed one dozen locks in box.
No. 1230—(100) Per dozen



Star Padlock.—A neat, well made, spring opening, self-locking padlock with two steel keys for each lock. Size 2 x 2 1/2", nickel plated. Weight 3 lbs. 13 ozs. per dozen. Packed one dozen in box.
No. 1232—(140) .. Per dozen



Assortment (B1).

This assortment consists of one dozen assorted Bicycle Locks and Chains, 4 brass finished and 8 japanned. On handsome lithographed display card. Two keys to each lock.

No. 1218 (B1)—Price per card (one dozen locks and chains)

No. 1221—Chain only, 9 1/2" long. White metal, double ring (2 dozen in box) Per dozen :



Bicycle and Motorcycle Padlock Assortment displays one dozen locks in assorted finishes. Two each in brass plated, antique coppered, black, blue, green and red enamel finishes.

Locks are 1 5/8" across case, and shackle opening is 4 1/4" x 1 1/8" inside measurement.

Display card is 16 1/2" x 12 3/4", made of extra heavy blinder board, with wire easel back and holes for hanging.

Two keys with each lock, keys being on back of card.

No. 1224 (78A) Per dozen

No. 1215 Bicycle Lock,

Brass Lock, hinged type shackle.

Size 3" over all, Shackle opening 7/8" wide, 2 3/8" deep. Self locking, two keys.

No. 1215 (778)— (One dozen in box) ... Per doz.



No. 1222, Bicycle Lock

Shell—Polished Brass.

Shackle—Steel Rod, Nickelled.

Interior—Spring Levers.

Key Cylinder—Brass slotted.

Keys—Corrugated and nickelled. 2 to each lock.

No. 1222 (2092)—(6 in box) Each



Black japanned with double ring white metal chain, two keys.

No. 1216 (4026)—(One doz. in carton) Per dozen

MANY a dealer has doubled his Lock sales by merely reminding customers that a bicycle is too valuable and too easily stolen to be left standing without a lock.

Locks (Continued)

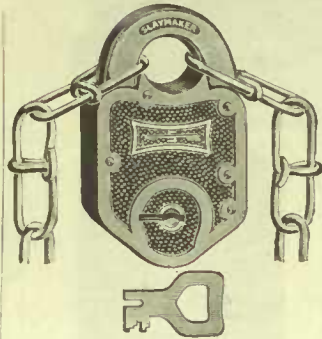
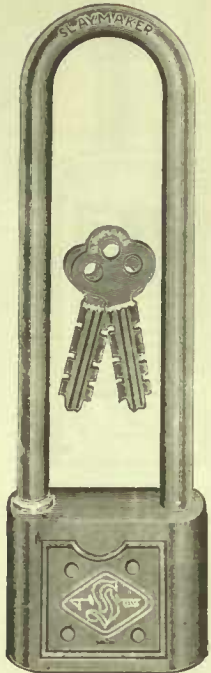
Chain Lock

No. 1219.

Bronze metal case, polished; heavy malleable iron shackle, spherardized (rust-proof), secure brass tumblers, dog and dog detainer. Two heavy flat steel keys each.

Each lock with 18" strong steel wire chain, galvanized.

No. 1219—Price, per dozen.



No. 1223—Bicycle and Motoreycle Lock.

Shackle—Hardened steel rod, nickelled, which springs to quarter turn when unlocked. 5" long.

Keys—Two nickelled corrugated steel keys with each lock.

Packed, six locks in carton.

No. 1223 (5-089) Each

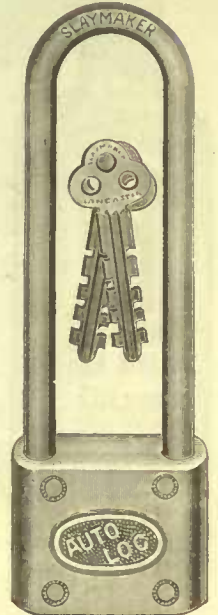
No. 1220—Motorcycle Lock—Shackle is reversible, adjustable and easily removable from the case. The size of shackle (6 3/4" long x 1 1/8" wide inside measurement) allows the use of this lock on all makes of machines. It is ratcheted to permit adjustment to length of 5 5/8".

Brass case 2" across.

Each in a carton with two corrugated steel keys.

(Six cartons packed in a box.)

No. 1220 (1094)—Price, each



Lubricant Chain

It is made of the very best material, and is supplied in 5/8" x 2 3/4" sticks, and 1" x 4" tin box with push bottom.

No. 1225—5/8" x 2 3/4" Stick (12 in box) Per doz.

No. 1225—5/8" x 2 3/4" Stick (12 in box) . . Per gross

N. 1226—1" x 4" Tin Box (12 in box) Per doz.



No. 1225.



No. 1226.

Lubricant, Chainolene

The correct lubricant for Roller Type Chains, its distinctive adhesive qualities keeping the rolls revolving continually in a film of oil, thus minimizing the friction. Not graphite.



Chainolene.

Ribbon shape opening in tube makes it easy to apply to chain. Economical, because it will not drip or "throw."

No. 568—Collapsible tubes, small size (1 dozen in display box) Per dozen

No. 569—Collapsible tubes, large size (1 dozen in display box) Per dozen

Nuts



(Hexagon Forged) Nickelled.

Carefully cut and threaded. Hardened to the proper temperature. Well nickelled over copper.

Size.	Thread.	
1/4	—20, 22, 24, 26, 28, 30, 32 or blank.	Per dozen
3/8	—22, 24, 26, 28, 30, 32 or blank.	Per dozen
1/2	—20, 22, 24, 26, 28, 30, 32 or blank.	Per dozen
3/4	—20, 22, 24, 26, 28, 30, 32 or blank.	Per dozen

Nuts, Wing

No. 1300—5/16 Blank, nickelled Per 100

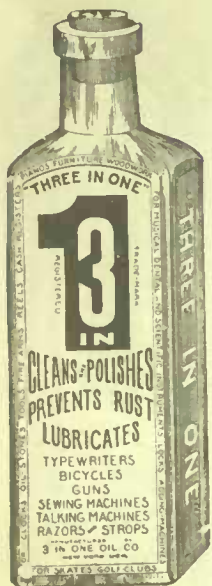
No. 1301—1/4 Blank, nickelled Per 100

No. 1302—For Telescope Pumps. Per 100



"The Dealers' Interests Are Our Interests."

Oils, Lubricating



"3 in 1" bottle.

Original 3-in-1

Lubricates chain bearings and all points of friction. Never gums. Cleans all parts quickly and thoroughly. This oil is very popular, and, as its name denotes, it is "three in one," being in general use for lubricating, cleansing and polishing.

- No. 1353—1 oz. bottles (24 in box) Per doz.
- No. 1354—3 oz. bottles (12 in box) Per doz.
- No. 1355—8 oz. bottles (Factory size) (12 in box) Per doz.



"Whiz."

- No. 18217—(36 in wood box) In 8 oz. Spout Can. Per doz



(Made in Canada) C.C.M. Lubricating Oil.

- In 2 oz. Bottles. No. 1358—(12 in carton).. Per doz

Oil C.C.M. Brake

A specially prepared heavy body oil, for use in the Hercules brake. Use of this oil will give you much better service from your brake.

- No. 1383—2 oz. bottles.. Per doz.



Hercules Brake Oil.



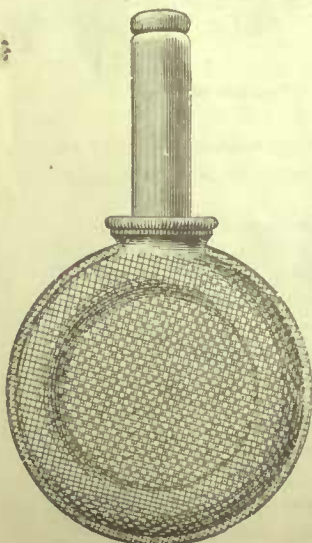
C.C.M. Burning Oil.

(Made in Canada)

Oil C.C.M. Burning

A highly refined smokeless oil, for burning in bicycle lamps, motor lamps, carriage lamps, lanterns, etc. Supplied in 8 oz. bottles.

- We have a quantity of 8 oz. tins, which will be applied on all orders until stock is exhausted.
- No. 1359—(12 in box).. Per dozen



No. 1375.

- No. 1375—Popular Oil-er, fitted with cap over stem to prevent leaking. Nickelled (1/2 gross in box). Illustration is actual size.. Per doz.

Oilers, Bicycle

- No. 1376—All brass, heavily nickel-plated. Fitted with heavy cap over stem to prevent leaking. Illustration is actual size. This is the oiler supplied in tool bags of C.C.M. Bicycles.

- No. 1376—(1/2 gross in box) Per dozen



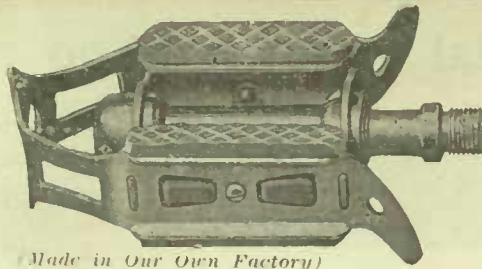
PAT FEB 18 1898

**Oiler
Motorcycle**

Motorcycle
Oiler.
No. 1381.



An all brass oiler, heavily nickel-plated. Size 2 3/4" diameter, length over all 6 3/8".
No. 1381—(12 in box) Per dozen



(Made in Our Own Factory)

Hercules Pedal, Men's

High class rubber pedal, very handsome design. Well made, finely finished and easy running. Right and left pedals stamped "R" and "L" respectively.

No. 1401—1/2" x 20 thread, width 4" (one pair in box) 4/2 3/4 . . . Per pair

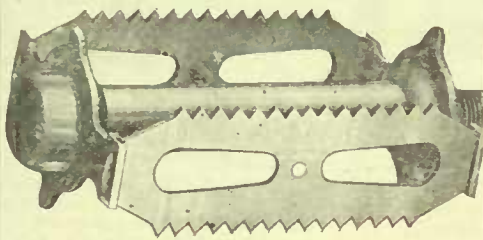


(Made in Our Own Factory)

Hercules Pedal, Ladies

Well made, nicely finished rubber pedal, similar to the Men's Hercules, but with shorter and rounder frame. Right and left pedals stamped "R" and "L" respectively.

No. 1400—1/2" x 20 thread, width 3 1/2" (one pair in box) Per pair



(Made in Our Own Factory)

Rat Trap Pedal, No. 40

Comparatively new design which is giving splendid satisfaction and promises to be very popular. Accurately made and beautifully finished.

No. 1411—3/8" x 20 thread, width 4" (one pair in box) . . . Per pair
No. 1412—1/2" x 20 Per pair

Parts for Hercules Pedals

- (Ladies' and Men's).
No. 1423—Rubbers, Men's. Per Set of 4
No. 1424—Plates, Men's. Dozen
No. 1425—Rubbers, Ladies' Per set of 4
No. 1426—Plates, Ladies'. Dozen
No. 325—Bolts and Nuts. Dozen
No. 1431—Axle, Right. Each
No. 1432—Axle, Left. Each
No. 1436—Dust Cap. Each
No. 1433—Cone Each
No. 1434—Locknut. Dozen
No. 1435—Washer. Dozen

Pedal, Rubber Bicycle



No. 1406—Rubber Bicycle Pedal, 1/2 x 20 (one pair in box). Per pair
No. 1408—Rubber Bicycle Pedal, 3/8 x 20 (one pair in box). Per pair

Parts for Rubber Pedal

- No. 1462 (10)—Rubbers. (Grey) Per set (4)
No. 1464 (1) —Axle, Right. Each
No. 1465 (1) —Axle, Left. Each
No. 1466 (14)—Dust Cap. Each
No. 1467 (2) —Cone. Each
No. 1468 (4) —Axle Nut. Dozen
No. 1469 (6) —Bolts for Rubber Each
No. 1470 (7) —Nuts for 1469. Dozen
No. 1471 (5) —Axle Washers Dozen
No. 1472 (3) —Outside Ball Races Each
No. 1473 (3A)—Inside Ball Doz.
No. 1474 (12)—Plates. Doz.
No. 1471 (12)—Plates. Doz.
No. 1478 (8)—Rubber Washers Dozen

Parts for C. C. M. Pedals

- No. 1427—Rubbers Dozen
No. 1428—Plates Per set (4)
No. 325—Bolts and Nuts. Dozen
No. 1431—Axle, Right. Each
No. 1432—Axle, Left. Each
No. 1436—Dust Cap. Each
No. 1433—Cone Each
No. 1434—Locknut Dozen
No. 1435—Washer Dozen

"Get Home" Motorcycle Pedal Axle



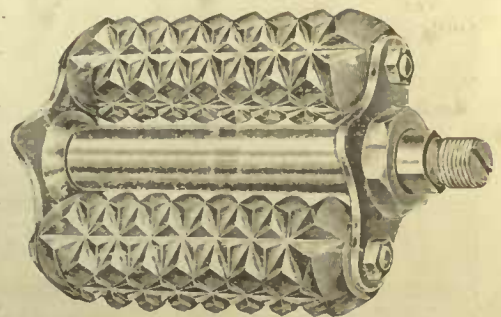
This Axle is threaded 1/2 x 20 Right hand thread on one end, and left on the other end. You can "Get Home" with it if you break your regular pedal axle. Slotted ends.

No. 1417 Each

**Pedal
"Knock Out"
Motorcycle**

Can be taken off without removing pedal axle from crank. Pedals marked Right and Left.

No. 1418—1/2" x 20 thread (one pair in box) Per pair



"The Dealers' Interests Are Our Interests."

Pedal Wrench, Shop



Specially adapted for attaching and detaching pedals. Opening $\frac{5}{8}$ ", instead of $\frac{3}{4}$ " illustrated. Semi-finished.

No. 2907 (540) Dozen

Pennants, Advertising

See page 12.

Pliers

Combination, 6-inch



Manufactured from best tool steel, drop forged and tempered. Black finish, with polished jaws.

No. 15513 Per pair

Pliers

Cone, Offset



No. 1454.

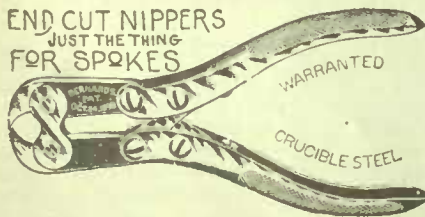
(Specially hardened in Our Own Factory.)

Drop forged, 8" over all. Has long thin jaws ($\frac{5}{2}$ " thick), offset to grasp large or small lock nuts, cones, etc., where there is only a narrow space to get at them. Has wire cutting attachment and screw driver handle.

No. 1454 Each

End Cut Nippers

END CUT NIPPERS
JUST THE THING
FOR SPOKES



This "End Cutting" Nipper has narrow jaws especially adapted for cutting ends off spokes. In two sizes, 5" and 6".

No. 1452—5" (6 in box) Pair

No. 1453—6" (6 in box) Pair

Extra jaws for end cutting nippers. (In ordering state whether male or female.)

5" Each

6" Each

For Chain Pliers or Grips

See page 24.

Posts, Bicycle Seat



Expander Type.

No. 1510—3 x $5\frac{1}{8}$ ", sizes $\frac{3}{4}$ ", $\frac{11}{16}$ ", $\frac{7}{8}$ ", $\frac{15}{16}$ ", 1" Each

No. 1511—3 x $5\frac{1}{8}$ " (all other diameters) Each

No. 1512—4 $\frac{1}{2}$ " x 8 $\frac{1}{2}$ ". Sizes $\frac{3}{4}$ ", $\frac{11}{16}$ ", $\frac{7}{8}$ ", $\frac{15}{16}$ ", 1" Each

No. 1513—4 $\frac{1}{2}$ " x 8 $\frac{1}{2}$ ". (All other diameters, including 1 $\frac{1}{32}$ ", 1 $\frac{1}{8}$ ", 1 $\frac{1}{4}$ " Each



C.C.M. Type.

Made in Our Own Factory

No. 1514— $\frac{7}{8}$ " x 6"

C.C.M. Type. Each

No. 1515— $\frac{7}{8}$ " x 9"

C.C.M. Type. Each

NOTE.—The No. 1514 is the Post regularly supplied on C.C.M. high grade bicycles.

Seat Post Clamps

See page 16.

Plugs, Sampson Brass

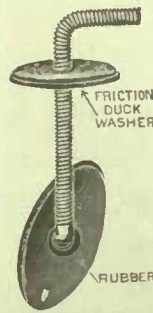
(Made in Canada)

We carry these in three sizes, viz., small, medium and large, 1 gross in box.

No. 1475—Small Per dozen

No. 1476—Medium Per dozen

No. 1477—Large Per dozen



PATENT APPLIED FOR

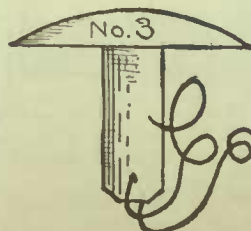
Plugs, String

Rubber Plugs — With Strings, for repairing single tube tires, in three sizes: small, medium and large.

No. 1486—Small (100 in box) Per 100

No. 1487—Medium (100 in box) Per 100

No. 1488—Large (100 in box) Per 100



Pumps, Bicycle

Pumps, Hand



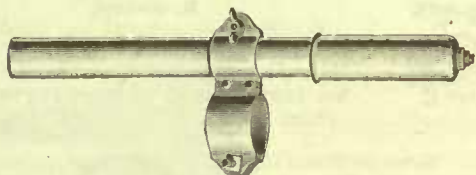
Hand Pump.—5 3/8" barrel. Nickel-plated. Supplied with 3" rubber connection, fitting all standard valves.
 No. 1520Per Dozen

Pumps, Frame



Austin Bicycle Frame Pump.

Special feature: No tube connection, no leaky joints. End of pump fits over valve as in old "Banner" pump. Size of barrel, 9 1/4" x 7/8". Length over all, 12 1/2".
 No. 1523—(12 in box), complete with one clip...
Price, each *670c*



Hercules, nickelled.—Made from very best quality brass tubing, nickel-plated. Fitted with high grade rubber connection, screw fitting, in end of plunger.
 Size of barrel, 9 3/4" x 7/8"; length over all, 11".
 No. 1522—Less Clips (each in carton). Per dozen
 No. 1526—With No. 1542 ClipsPer dozen *654*



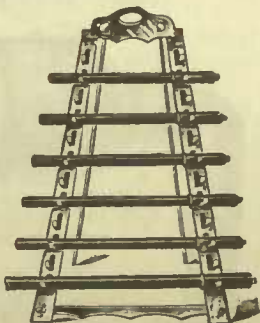
Bluemel Black Celluloid.

Very attractive in appearance. Well made and substantial. Solid moulded ends. No parts can come loose with use. Size of barrel, 14 1/4" x 1 1/8". Length over all, 15 1/4". Complete with rubber connection, with spring-in fitting in end of plunger.
 No. 1525—Less clips (36 in box)Per dozen
 No. 1527—With No. 1540 Clips (36 in box)....
Per dozen *385c*
 The 1540 is the English style clip—not listed.

Stands Frame Pump

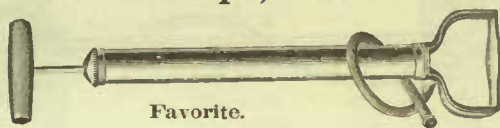
These will help to sell your pumps. Aluminum finish, 12" at base, 6 1/4" at apex; height 18 1/2", with standing rack. Takes one dozen pumps.

No. 1550Each



No. 1550.

Pumps, Foot



Favorite.

Favorite.—A medium priced Pump, which has given universal satisfaction; 1 1/8" x 12", seamless steel barrel, polished. Cap screws off at top. Length over all, 17 3/4"; weight, 18 oz.
 No. 1560 (15)—Favorite (100 in box). Per dozen



"C.C.M."

C.C.M.—1 1/4" x 12". Length over all, 17 3/4". Barrel is made from seamless brass tubing, nickel-plated. Cap screws off at top. Weight 19 oz. Cast base. Flitted with 12" rubber pump connection.
 No. 1563 (215)—(100 in box)Per dozen



Noera. 1565 (84).

Noera (84)—A good single action Bicycle Tire Pump. Seamless steel barrel, nickel-plated, 1 1/4" x 13", length over all 23", plated cast base, screw cap. Flitted with 2 foot connection.
 No. 1565 (84)—(25 in box)Each

Comfort Pump

Two-cylinder double action Pump; cylinder 16" long; height over all, 19 3/4"; width of handle, 7 1/2".

Steel barrels, cast base. 20" pump connection, with swivel fitting. Exceptional value.

No. 15201—Less Gauge
 (50 in box)Each



Comfort.

Pump Clips, Frame

Suitable for 7/8" pumps. One clip all that is required for holding pump. Fitted with Wing Nut.

No. 1542Per dozen

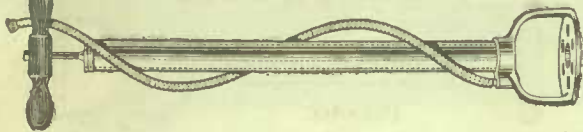


No. 1542.

"The Dealers' Interests Are Our Interests."

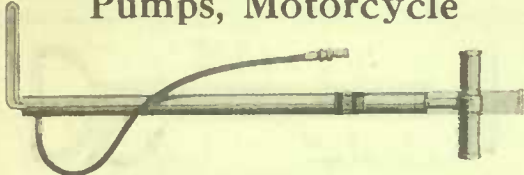
Pumps (Continued)

Foot Pump, Bridgeport



Bridgeport (8)—A large Pump, for store or shop use. Extra heavy seamless brass cylinder, nickel-plated, 20" long x 1½" diameter, length over all 26". Heavy cast base, screw cap. Fitted with 24" connection.
No. 1564 (8)—(25 in box)Each

Pumps, Motorcycle



"Excel" Combination Frame and Foot Pump.

Seamless brass barrel, nickel-plated. Size of barrel, 18 x 1"; length over all, 22¾". Fitted with swivel handle, which can be turned lengthwise on end of plunger and fitted over barrel. Foot Bracket also folds against the barrel.

Pump stem fits down inside of plunger with a spring clip. Fits either English or American style valve.
No. 1531—Price, with two No. 1542 clips...Each
No. 1542—Clips for abovePer dozen



Austin Motorcycle Pump.

Special feature: No tube connection, no leaky joints. End of pump fits over valve as in old "Banner" pump. Size of barrel, 15" x 1. Length over all, 18½". Nickel-plated.

No. 1532—(Each in carton), complete with two clipsEach

Frame Pumps, Motorcycle



No. 1533—Motorcycle Frame Pump, nickel-plated. Size of barrel, 18" x 1"; length over all, 19". Pump connection, with screw fitting in end of plunger. Complete with two clipsPrice, each

Pump Washers (Leather)

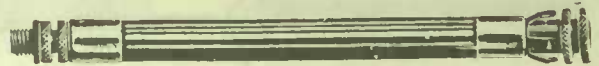
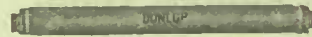


For renewing pump washers on hand, foot and floor pumps, 100 in box.

- No. 22196— 5/8"Per 100
- No. 22189— 3/4", (Fits pumps 1522, 1523).Per 100
- No. 22165— 7/8", (Fits pump No. 15201).Per 100
- No. 22166—1"Per 100
- No. 22167—1 1/8", (Fits pump No. 1560).Per 100
- No. 22168—1 1/4", (Fits pumps 1563, 1564). Per 100
- No. 22169—1 3/8", (Fits pump No. 1564).Per 100
- No. 22170—1 1/2"Per 100
- No. 22171—1 3/4"Per 100

Boxed Assortment—For the convenience of the bicycle repair trade, we have prepared an assortment of 72 Pump Washers, comprising the following sizes:— 6 3/4", 18 7/8", 12 1", 6 1 3/8", 24 1 1/4", 6 1 1/2".
No. 1555Per box

Pump Stems



- No. 1610**—3", for Hand Pumps, plain grey rubber (25 in bundle)Per dozen
- No. 1611**—12", for Foot Pumps, plain grey rubber (100 in bundle)Per dozen
- No. 1614**—For No. 1564 and 1565 Bridgeport Pumps, two feet longEach
- No. 1615**—Universal spring-in style, fits nickel and celluloid English frame pumps. (See note.) (One gross in carton)Per dozen
- No. 1616**—For No. 1522 American Nickel Frame PumpsPer dozen

NOTE.—We cannot obtain a further supply of screw-in style stems for Hercules Nickel and Celluloid Pumps of English manufacture, and have, therefore, arranged for a universal spring-in style stem (No. 1615), which will fit both these pumps.

Our Nickel Pump No. 1522 is now American made, and No. 1616 stem fits it.

Pump Connections



K. Swivel.

Standard equipment on most Foot Pumps, and many Hand Pumps. Handy and easily fitted to rubber hose.
No. 1591—For 1/8" Tubing (25 in box)Per doz

The "Keno"—The threaded part is steel. The stem that goes in hose and the body are one solid piece (25 in box).

- No. 1592**—Regular size, for 1/8" tubing ...Each
- No. 1593**—Large size, for 1/4" tubingEach

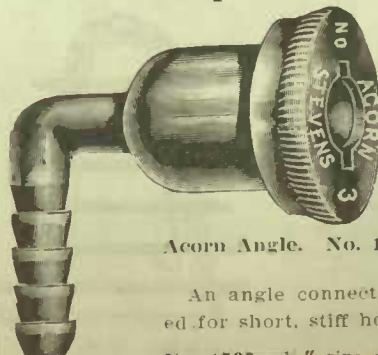


No. 1533—Motorcycle Frame Pump, nickel-plated. Size of barrel, 18" x 1"; length over all, 19". Pump connection, with screw fitting in end of plunger. Complete with two clipsPrice, each



The "Bull Dog"—Well made and with a good grip.
No. 1594—(25 in carton)Each

Pump Connections



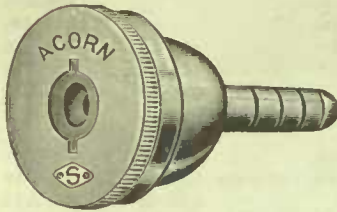
Acorn Angle

Acorn Angle. No. 1595.

An angle connection, especially adapted for short, stiff hose.

No. 1595—1/4" size only (25 in carton)Each

Pump Connections (Continued)



Acorn No. 1596.

Acorn

Our new stock will be fitted with a metal collar inside the chamber, which prevents forcing the connection on the valve so far that it cannot easily be removed.

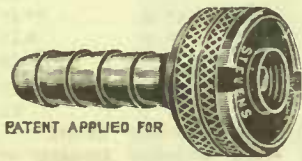
No. 1596 — $\frac{3}{8}$ " regular size (50 in package)...
..... Each

We cannot obtain $\frac{1}{4}$ " size at present.

Thumlock

Thumlock Pump Connection.—A new device which grips securely on the valve by pressing a small lever with the thumb. Nothing to get out of order.

No. 1597 .. Each



PATENT APPLIED FOR

Pump Rubbers



No. 22103 — Acorn (100 in box). Per doz.

No. 1538—Fits in Austin PumpPer doz

No. 1601 — Banner Per doz.
.....



Banner.

Ideal

For Power Pumps only.

No. 2289—(25 in carton) .. Each

Plugs

Benton Mica Motorcycle

Made In Two Sizes.

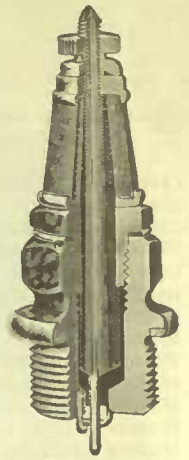
Fully guaranteed. Complete cleaning instructions in each box.

No. 1499 — Metric. Price, each

No. 1500 — A.L.A.M. Price, each



No. 1499 Metric.



Sectional View.

Reamer

For reaming out valve hole in rims and repair work on wood or metal. Will fit standard stock in brace or breast drill. Tapers from $\frac{1}{8}$ " to $\frac{1}{2}$ ". Each in carton. No. 17102 Each \$1.90



Repair Tags Hercules

(Made in Canada)

Indispensable to every repair man. Each tag is numbered consecutively, and has detachable coupon for customers.

We cannot supply any specified numbers, but will fill orders with consecutive numbers for any quantity.

No. 1655—Per 1,000 (1,000 in pkg.) ..



Pump Tubing



(Made in Canada)

We furnish black pump hose in three following sizes: $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ ", 2-ply. The $\frac{1}{8}$ " is for hand or foot pumps, $\frac{3}{16}$ " for shop or floor pumps, and the $\frac{1}{4}$ " for large automobile power pumps. We also supply a special grade of red tubing, as specified below:

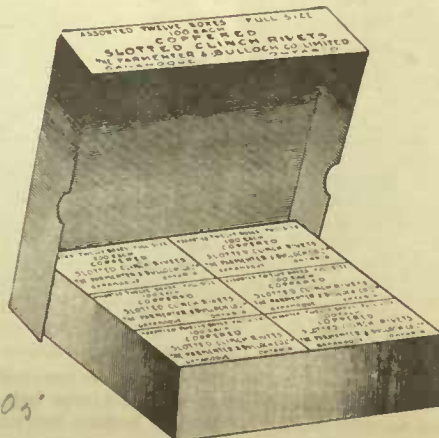
Black.

No. 1620— $\frac{1}{8}$ ", 2-plyPer foot
No. 1621— $\frac{3}{16}$ ", 2-plyPer foot
No. 1622— $\frac{1}{4}$ ", 2-plyPer foot

Red.

No. 1630— $\frac{1}{8}$ ", 2-plyPer foot
No. 1631— $\frac{3}{16}$ ", 3-plyPer foot
No. 1632— $\frac{1}{4}$ ", 3-plyPer foot

Rivets, Bifurcated



One Rivet Holder will be found in each small box.

Put up in small boxes, 100 assorted. Twelve small boxes in carton.

No. 1680—Large box (12 small boxes) Each.

No. 1681—Small box (100 assorted Rivets) Each..

Rims, Bicycle Wood

Rim Striping Specifications from 1912 to 1918.

All Dunlop Style Single Piece Rims.	No. of	No. of	No. of	No. of	No. of	No. of
	Stripe	Stripe	Stripe	Stripe	Stripe	
	used in	used in	used in	used in	used in	Stripe
	1912.	1913.	1914.	1915.	1916.	used in
						1917-18.
Cleveland Hygienic	16	22	16	16	16	16
Cleveland Rigid	16	16	16	16	16	16
Cleveland Rigid						Models 455-6 **16
Cleveland Juvenile (Boys' and Girls')	16					" 457-8 A18
Cleveland Flyer		*19				A 5
Brantford Hygienic	6	26	40	40	40	40
Brantford Rigid	20	20	40	40	40	Models 555-6 40
Brantford Rigid						" 557-8 A18
Brantford Juvenile (Boys' and Girls')	20	20	16	16	16	A 5
Massey Hygienic	21	21	25	25	25	25
Massey Rigid	15	25	25	25	25	Models 355-6 **25
Massey Juvenile (Boys' and Girls')	15					" 357-8 A18
Massey Grey Wolf		*30				A 5
Perfect Hygienic	6	6	16	16	16	48
Perfect Rigid	20	20	16	16	16	Models 655-6 **48
Perfect Rigid						" 657-8 A18
Perfect Juvenile (Boys' and Girls')	20	20	16	16	16	A 5
Gendron Hygienic		26	25	25	25	25
Gendron Rigid		20	25	25	25	Models 855-6 **25
Gendron Rigid						" 857-8 A18
Gendron Juvenile (Boys' and Girls')		25	16	16	16	A 5
Ivanhoe Hygienic	6	26	16	16	16	48
Ivanhoe Rigid	16	20	16	16	16	Models 755-6 **48
Ivanhoe Rigid						" 757-8 A18
Columbia Hygienic					A6 & 8	48
Columbia Rigid					A6 & 8	Models 955-6 **48
Columbia Rigid						" 957-8 A18
Model F.				A18	A18	Plain
Motorbike, Model "W," all nameplates. Road Cart Red, with Green Head						36
Green with Gold Head						71
Racer, Model "T," all nameplates. Crescent Laminated Racer style. Section C-6. Plain varnished finish.						

*NOTE.—In ordering striped rims for Cleveland Blue Flyer or Massey Grey Wolf, state whether Dunlop or Crescent style required.

**NOTE.—When high grade Bicycles, irrespective of nameplate, are ordered in any of our stock colors, the following rims will be used:

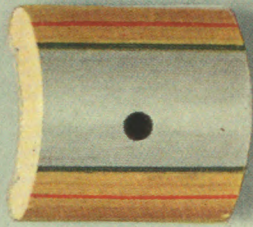
Finish No.	Bicycles Enamelled.	No. of Rim equipped.
3	Maroon	40
4	Maroon and Gold Stripe	40
5	French Grey with Green and Red Stripe	30
6	French Grey with Blue Sunburst Head and Blue and Gold Stripe	48
7	French Grey with Red Sunburst Head and Red and Gold Stripe	50
8	Road Cart Red with Green Stripe	36
9	Green with Gold Stripe	71
10	Green with Gold Sunburst Head and Gold Stripe	71
2	Black with Red Sunburst Head	A6
	All "B" Grade Bicycles, men's and ladies', whether black or colored	18
	Juveniles, Green only	71
	Juveniles, Black, Maroon or Grey	A5

Price List

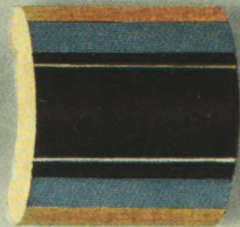
	Per pair
Plain, 24" (36 in crate)	" "
Plain, 26" and 28" (36 in crate)	" "
No. 8 Stripe, 28" (36 in crate)	" "
" 16 " 26" and 28" (36 in crate)	" "
" 18 " 28" (36 in crate)	" "
" 25 " 26" and 28" (36 in crate)	" "
" 30 " 28" (36 in crate)	" "
" 36 " 28" " "	" "
" 40 " 28" " "	" "
" 48 " 28" " "	" "
" 50 " 28" " "	" "
" 71 " 26" and 28" (36 in crate)	" "
" 72 " 28" (36 in crate)	" "
" 73 " 28" (36 in crate)	" "
" A5 " 26" and 28" (36 in crate)	" "
" A6 " 26" and 28" (36 in crate)	" "
Section C-6, Laminated Rim, Racer Model. (36 in crate)	" "

The above Rim stripings, as specified, will be carried in stock during the coming season, drilled 32 and 36 hole. Any Striping or Drilling different from the above will be special, and unless we happen to have some in stock, will mean a delay of two weeks or longer before delivery can be made.

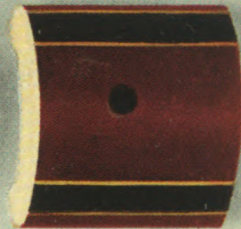
All Drilled Rims are Fitted with Saw Tooth Washers.



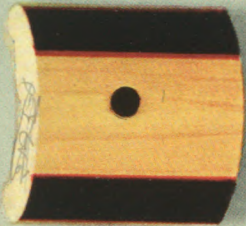
30



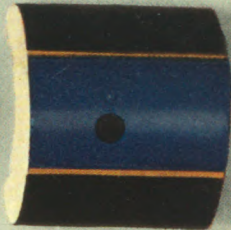
8



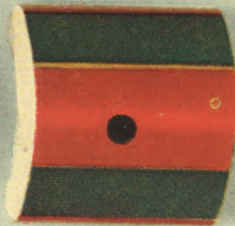
72



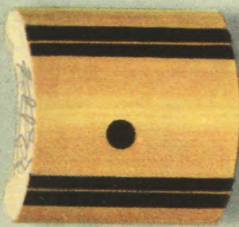
25 62032



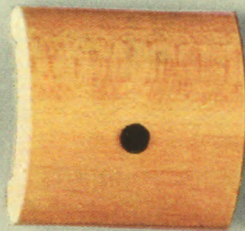
73



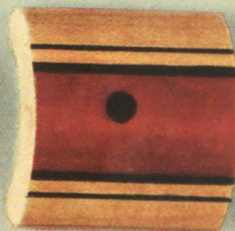
36



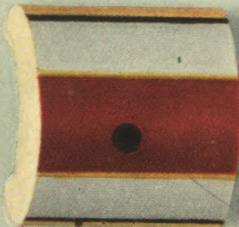
18 71956



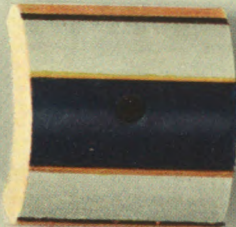
PLAIN



A5



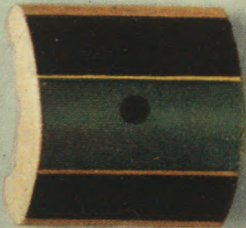
40



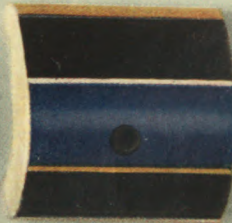
48



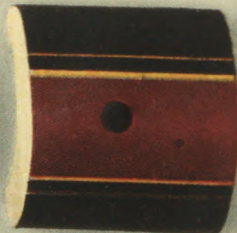
50



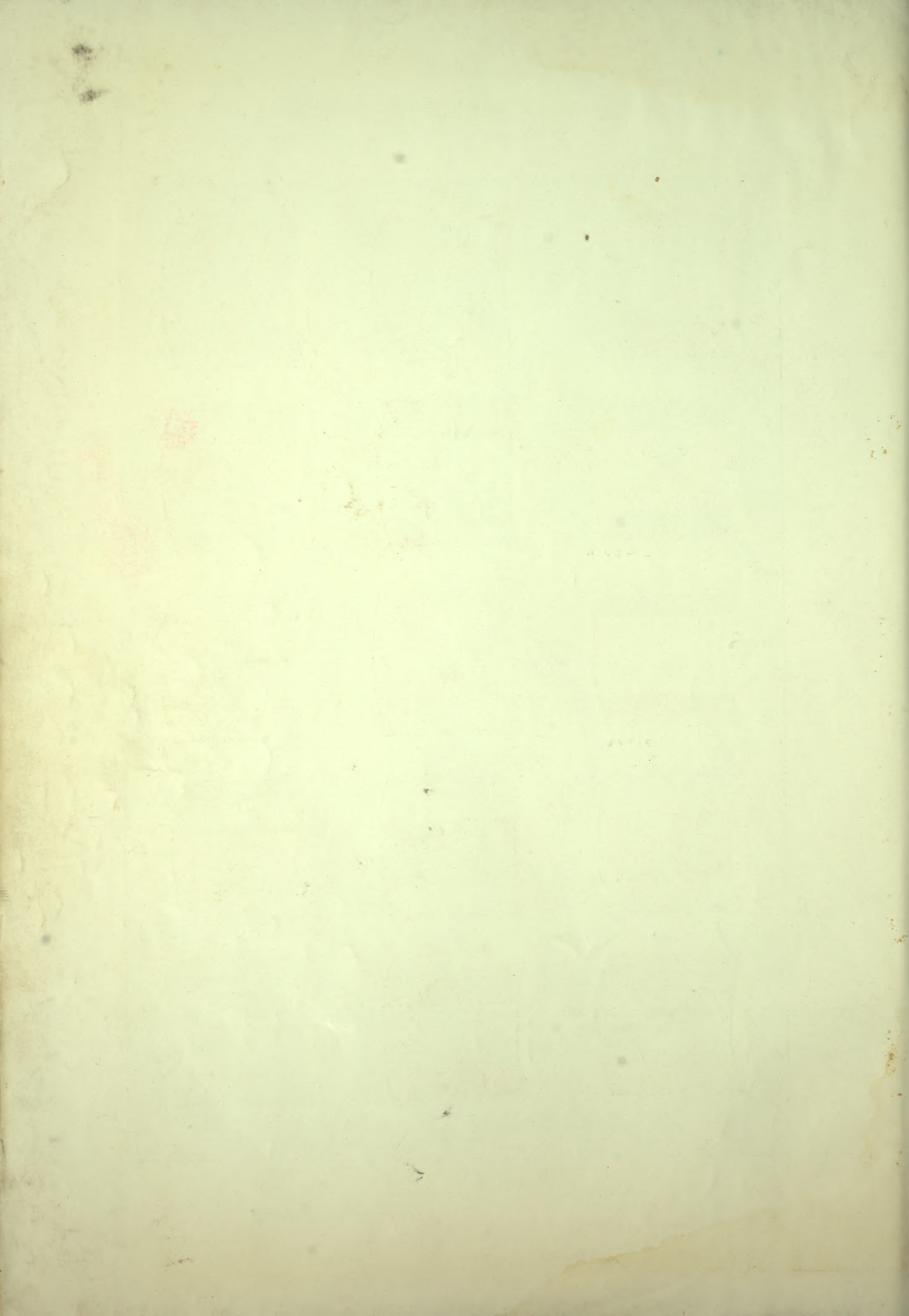
71



16



A6



Rims, Bicycle, Wood

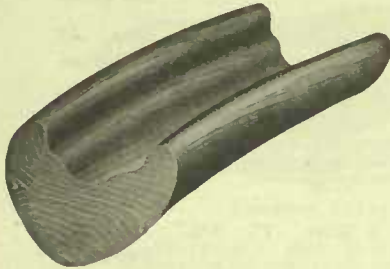
(Made in Our Own Factory)

Note.—All drilled wood rims are fitted with saw-tooth washers.

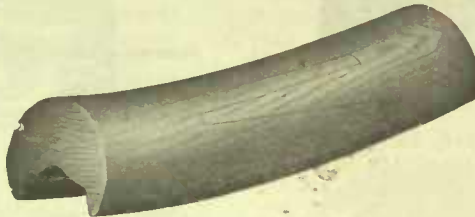
These Rims are manufactured from finest selected hard maple. They are all treated with a special formula waterproof oil, of great penetration, which prevents

splitting at the spoke holes, and greatly increases the life of the rim. Finished with highest grade of varnish, and highly polished.

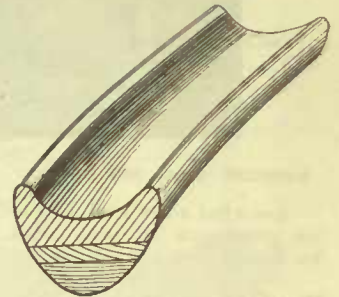
Fully guaranteed as to quality, material and workmanship.



"Dunlop" Single Piece.



Single Piece, showing Interlocking Joint.



"Crescent" Laminated.

Single Piece—Dunlop, for 24" tires (36 in crate)..Per pair

Single Piece—Dunlop, for 26" and 28" tires (36 in crate)Per pair

Crescent Laminated—For 28" tires only (36 in crate).... Per pair

Note.—All drilled wood rims are fitted with saw-tooth washers.

For Built-Up Wheels

See page 70.

Rims, Seconds

Rims—Seconds. These are Rims rejected by our inspectors because of imperfect coloring in the natural wood, or a knot or some other slight imperfection which does not impair the serviceable qualities of the Rim in the least.

These Rims are fitted with saw-tooth washers and crated. They are marked "Star." All orders for these are subject to previous sale.

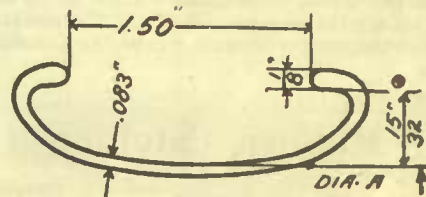
Star—Drilled 32 and 36 hole (36 in crate). Per pair

Rims, Steel

Cannot Supply

Owing to the shortage of Steel Rims, we have been obliged to discontinue listing this line for the present.

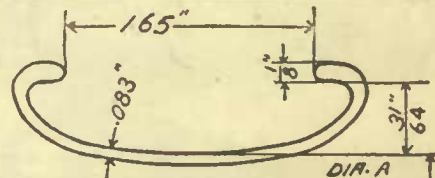
Rims, Motorcycle, Steel



BB.—Takes place of old 2 1/2" Rim, and accommodates 2 3/4" and 2 1/2" x 28" Tires.

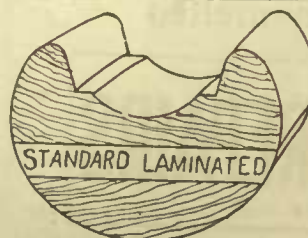
Supplied in rough coppered finish only. Drilled 36 or 40 holes, or undrilled.

Each



CC.—Made for heavy machines. Will accommodate 2 3/4" and 3" x 28" Tires

Supplied in rough coppered finish only. Drilled 36 or 40 holes, or undrilled.



Rims, Sulky or Tandem

Made in Our Own Factory

We carry a stock of Sulky Rims in Dunlop style, 26" and 28".
(18 pair in crate)Per pair

"The Dealers' Interests Are Our Interests."

Rubber Patches, Circular



Assorted sizes, 100 in box. (Made in Canada)

Assorted sizes 1 1/8" to 1 1/2". Very handy for repairing punctures in inner tubes. Packed 100 in box.
 No. 1665—Per box of 100

Rubber Patches

M. & M.
 Sticktite
 Patch



Sticktite Gasoline Patches solve the problem where an extra quick repair is desired in an emergency.

No. 15048—Quick Emergency Patch, in tin box, containing 10 assorted patches, 1 1/4" to 2" diameter, with strip of sandpaper for cleaning tube, and complete instructions.
 Per box

Rubber, Patching



Made in Canada

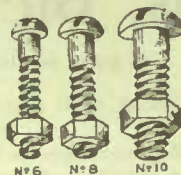
High Grade Rubber, good heavy weight, supplied in 2-oz. rolls, 2 1/2" wide, about 6 ft. long. Specially adapted for repairing tears or punctures in inner tubes. Eight rolls to box.
 No. 1660—Per roll

Signs, Enamelled



Blue Letters on White Background.—Supplied lettered on both sides, to project in front of shop.
 No. 1905

Screws

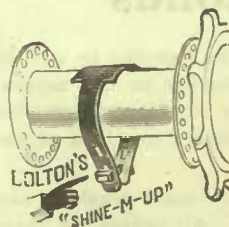


Round head, nickelled. Used on toe clips, bells, mud and chain guard braces, etc. Nickel dipped, cold-pressed hexagon nuts are supplied to fit the screws, if desired. They are supplied in three different sizes, one gross in box, as follows:

- Screws Only—No. 6 Wire, 3/8", 1/2", 5/8" long, 32 thread Per gross
- Screws Only—No. 6 Wire, 3/4", 1" long, 32 thread Per gross
- Screws Only—No. 8 Wire, 3/8", 1/2" long, 32 thread Per gross
- Screws Only—No. 8 Wire, 5/8", 3/4" long, 32 thread Per gross
- Screws Only—No. 8 Wire, 1", 1 1/4" long, 32 thread Per gross
- Screws Only—No. 10 Wire, 3/8", 1/2" long, 32 thread Per gross
- Screws Only—No. 10 Wire, 5/8", 3/4" long, 32 thread Per gross
- Screws Only—No. 10 Wire, 1", 1 1/4" long, 32 thread Per gross
- Screws Only—No. 10 Wire, 1 1/2" long, 32 thread. Per gross
- Screw Nuts for above Per gross
- Screws and Nuts, assorted (1 gross each in box) Per box

Shine-M-Up

Hub Cleaners



Put up on display cards holding 6 fronts and 6 rears. Six cards in box.

No. 1900—Per card (1 doz.)

Steel Wool



For rubbing down bicycle frames. Supplied in one pound packages in following grades—fine, medium and coarse.

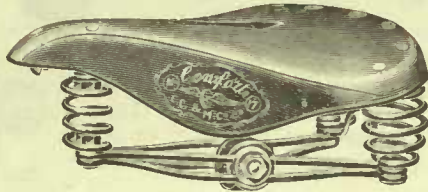
- No. 1990—Fine, 1 lb. in package Per lb.
- No. 1991—Medium, 1 lb. in package Per lb.
- No. 1992—Coarse, 1 lb. in package Per lb.

Prices Subject to Change Without Notice.

Saddles

“Comfort” and “Hercules”

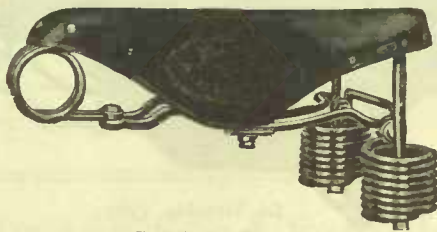
“Comfort” and “Hercules” Saddles are made from finest selected leather. The springs are manufactured from the best cold-drawn steel wire, specially prepared for that purpose. The binding clips are made true to gauge, ensuring a firm grip on the seat post. These saddles are of first-class finish in every respect, and handsome in appearance.



Comfort (17).

Standard Roadster. Size 10½" x 8" x 4". The three coil springs and the truss are black enamelled; the clamp nickel-plated. Optional equipment on C.C.M. Grade “B” Men’s Bicycles.

No. 1817 Each 4.05



Comfort, No. 42.

10¼" long x 7¾" wide. Truss and spring black enamelled. American style clamp, nickel-plated. Standard equipment on C.C.M. Grade “B” Men’s Bicycles.

Reinforced Seat prevents sagging.

No. 1842 Each 2.00



Comfort, Ladies' (24).

Size 8½" x 7½" x 4". Truss and coil springs black enamelled. American style clamp, nickel-plated. Standard equipment on C.C.M. Grade “B” Ladies’ Bicycles.

No. 1824 Each 1.50



Comfort, Ladies' (34).

Comfort, Ladies' (34)—Size 10" x 8½" x 4", nickel-plated springs and fittings. Embossed top. Standard equipment on C.C.M. Ladies’ Grade “A” Bicycles

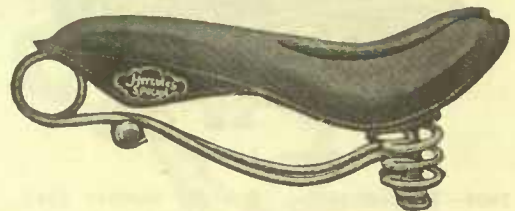
No. 1834 Each 2.50



Hercules (39).

Size 10½" x 8¾" x 4". Heavy rear wire coil springs, double coil steel nose springs, steel girder base. Black enamelled springs and girder, nickel-plated clamp. Very superior leather top, blocked to shape. Well suited for heavy riders. Standard equipment on C.C.M. Grade “A” Men’s Bicycles.

No. 1839 Each 4.2750



Hercules Special.

Hercules Special Saddle. Handsome, well finished standard road saddle. Length 9", width 7¼". Fitted with Universal spring and special hinge joints on front; double coil torsion spring.

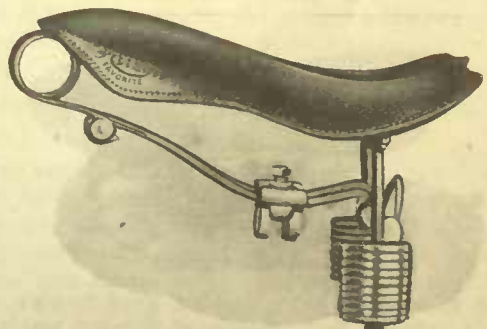
No. 1836 Each



Hercules (No. 41). Track Racing Saddle.

Size 11¼" x 6¾" x 2¼". Weight 1 pound 9 oz. Nickelled springs of cold drawn steel wire. A popular saddle for track racers; extra long, with back narrow and well rounded. Standard equipment on C.C.M. Racer Bicycles.

No. 1841 Each



Hercules Favorite.

Hard top saddle, 10¾" long x 7½" wide. Truss and spring black enamelled. American style clamp, nickel-plated.

No. 1810 Each

NOTE.—When ordering parts always send samples.

“The Dealers’ Interests Are Our Interests.”

Saddles (Continued)



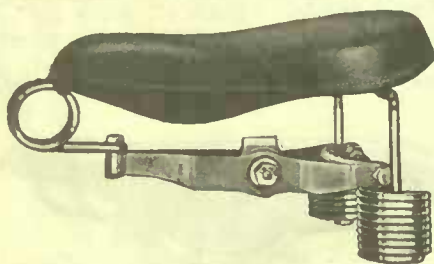
Nemo, Men's.

No. 1800—Men's Nemo. Size 10½" x 8" x 3". Black enamelled truss, nickel-plated clamp and nose fitting. Standard equipment on C.C.M. Juveniles, Boys' modelsEach



Nemo, Ladies'.

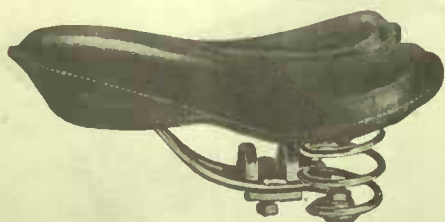
No. 1801—Ladies' Nemo. Slightly shorter than Men's Nemo; embossed top. Standard equipment on C.C.M. Juveniles, Girls' models. Each



Motorbike Jr.

Motorbike Jr.—A motorcycle type saddle, with padded top and patent compound springs, built to last indefinitely. Size of top 11" x 9". Weight 4 lbs. 10 oz. Metal parts nicely black enamelled. Standard equipment on C.C.M. Motorbike Bicycle.

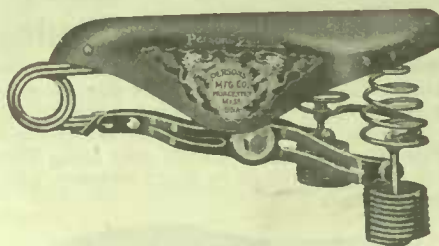
No. 1844Each



Motorbike Padded.

D-2 Padded—A light, durable, good looking, comfortable saddle. Top consists of five-ply maple and basswood veneer, light and strong, to which is cemented several layers of high grade felt, the whole then covered with grain leather. Fitted with patent compound springs. Size of top 9¼" x 7½". Weight 1 lb. 7 oz.

No. 1845Each

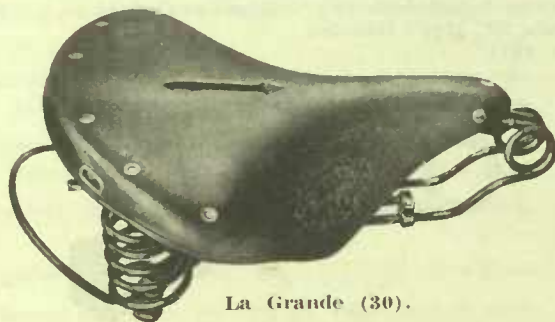


No. 1843. Zenith (3).

Size 10½" x 8½" x 4". A heavy, durable saddle, with very serviceable truss and rear springs. Black enamelled girder base.

No. 1843—Zenith (3)Each

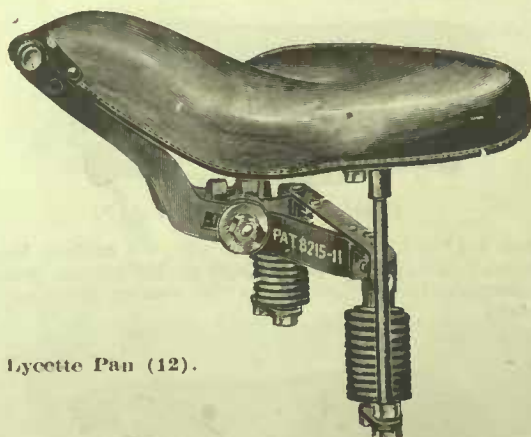
Motorcycle Saddles



La Grande (30).

Fits low on machine. Size 14" x 11¾". Weight 4 lbs. 9 oz. Highest grade oak tanned leather top, reinforced. Truss black enamelled.

No. 1830Each



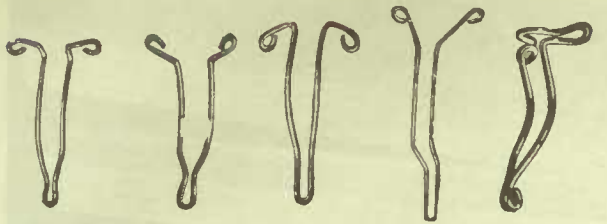
Lycette Pan (12).

A comfortable saddle, made of the best material. Width 13", length 12¾". Base of saddle is of steel, properly shaped to fit, nicely padded, covered with high quality leather. Truss is heavy gauge metal, black enamel finish, with extended Torsion spring, very resilient, under rear of saddle.

No. 1812Each

NOTE.—When ordering parts always send sample.

Saddle Parts



No. 2. No. 4. No. 00 No. 11 Hercules Special.



Saddle Trusses

No. 2—Truss for American Saddle, with two rear coil springs. Each

No. 4—Truss for American Saddle, without coil springs. Each

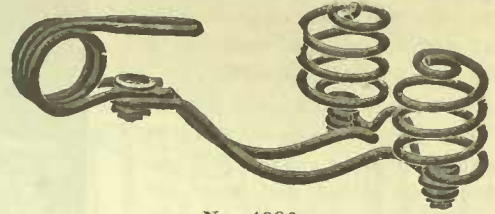
No. 5. Each

No. 00—Truss for American Saddles, without coil springs, and bolted on saddle base Each

No. 11—Truss for Saddle, with three coil springs. Each

No. 5—Truss for American Saddles (comprising two coil springs), bolted on saddle base. Each
Hercules Special

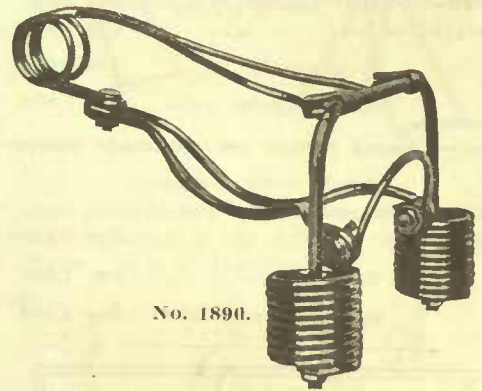
Saddle Springs



No. 1880.

Troxel Combination Saddle Springs.

An easy saddle spring. Adjustable to any saddle.
No. 1880—Complete Each



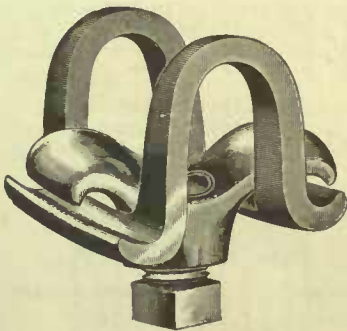
No. 1890.

Perfection Springs.

All assembled and nickelled. A very easy spring.
No. 1890—Each

Always Send Sample of Part Required

Saddle Clamps



American—This is the standard Clamp for American styles of saddle springs.

No. 1875—Clamp, complete. Each

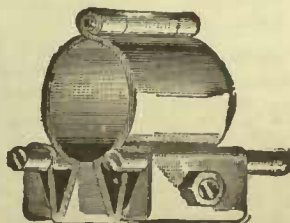
Clamp Parts.

Clip only . . Each
Clip Binder only. Each
Clip Binder, Set Screw only Each

Clamp, Chalfant

A Clamp for attaching to top bar of frame for purpose of lowering saddle by bringing it closer to the frame than the seat post would allow. No seat post is necessary when this clamp is used.

No. 574—1" size Each
No. 575—1 1/8" size Each



ORDERING SADDLE PARTS

Always send in a sample of the part required when in need of parts for the saddles equipped on our bicycles, or sold by us in the Accessories Department.

This is absolutely essential for the correct filling of your order.

The reason for this is that during the last two years we have been obliged, on account of war conditions, to purchase our saddles from a number of different sources. While we are retaining our own saddle model numbers, naturally the saddles supplied by different makers do not have identically the same parts.

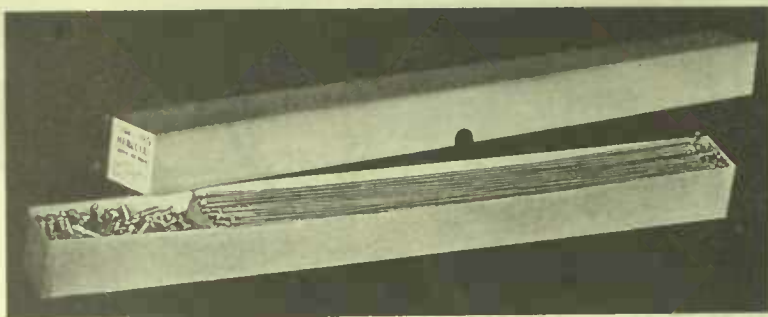
For example, the No. 39 Saddle has been made by three different manufacturers, and each maker's parts are slightly different from those of the others, hence we must have samples.

"The Dealers' Interests Are Our Interests."

Spokes and Nipples, Bicycle, "Hercules"

Tensile strength and extra quality finish are outstanding features of Hercules spokes. They are manufactured from the very best grade of piano wire in 15-17 gauge, and are tested to a breaking strain of 800 pounds.

Hercules spokes are heavily nickel-plated on burnished copper, and are practically rust-proof. They will retain their high polish and wear for years. They are supplied in neat cardboard boxes, packed 150 spokes and nipples per box, and are furnished in all standard lengths.



(Made in Our Own Factory)

Notice the quality of the plating on Hercules Spokes.

No. 1920—Swaged—Spokes and Nipples, complete (150 in box) Per 1,000
 Spokes only Per 1,000
 Spoke Nipples only Per 1,000

Note.—Swaged Spokes are not made shorter than 11 3/8".

No. 1925—Unswaged—Spokes and Nipples, complete (150 in box) Per 1,000
 Spokes only Per 1,000
 Spoke Nipples only Per 1,000

Note.—Lengths of spokes generally used in bicycle wheels are as follows:

- For 24" front wheels 9 7/8" and 10"
- For 24" rear wheels 10"
- For 26" front wheels 10 3/8" and 10 7/8"
- For 26" rear wheels 10 3/8"
- For 28" front wheels 11 1/4" and 11 3/8"
- For 28" rear wheels 11 3/8"

Note

When stringing 36 hole rims, use 1/8" shorter spokes than in 32 hole rims. Example: 28" front wheel, 32 hole rim, use 11 3/8" spokes; 28" front wheel, 36 hole rim, use 11 3/4" spokes.

Spokes and Nipples Sulky

No. 1940—Bent Head Spokes and Nipples, 12-14 gauge, 10 1/4", 11 3/8", 11 7/8"—Per 100



Spokes, Bike Wagon

We supply these in the following gauges and lengths only:

11 gauge, bent head, 14", 15". 11 gauge, straight head, 15", 16". 9 gauge, bent head, 14 5/8", 15 5/8", 16 5/8".

No. 1930—11 gauge, straight head Per 100

No. 1931—11 gauge, bent head Per 100

No. 1932—9 gauge, bent head Per 100

- 10 1/8" for 1915 Dayton Rear.
- 10 3/8" for 1915 Dayton Front.
- 10 7/8" for 1914-5 Pope.

- 10 7/8" for { 1914-5 Pope.
- 1915 Henderson 2-speed Rear.

- 10 9/16" for { 1914 Harley-Davidson.
- 1915 Emblem.
- 1915 Excelsior.
- 1915 Yale.

- 10 5/8" for { 1913 Harley-Davidson.
- 1915 Emblem Front.

- 10 3/4" for { 1914-5 Indian Front.
- 1915 Henderson.

- 10 7/8" for { 1913-5 Indian Rear (7 h.p. model).
- 1912-3 Harley-Davidson.
- 1915 Emblem Rear.

Spokes and Nipples, Motorcycle



"Diamond E."

No. 1950—Size 135-110 (10-12), all lengths Per 100 \$7.80

Following is a list of lengths used by various manufacturers, practically all of whom adopted the Diamond E. Spokes in 135-110 size as standard equipment on their 1915, 1916 and 1917 models:

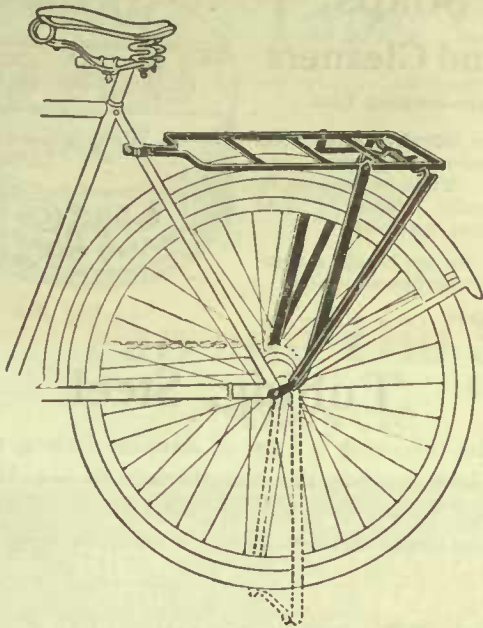
- 11 1/8" for 1912-13 Pope.
- 11 1/4" for 1912 Excelsior.
- 11 3/8" for 1912 Pope.
- 11 3/8" for { 1912-15 Indian.
- 1912 Triumph.
- 1915 Harley-Davidson.
- (a few).
- 11 7/8" for 1913 Excelsior.

For 1916 Models.

Maker.	Spoke Length.
Excelsior	10 9/16"
Hendee—	
Model F-G	10 3/8" front
.	10 7/8" rear
5 1/2 H.P.	11 3/8"
Model K	10 3/8"
Side Car	10 3/8"
Harley-Davidson	10 9/16" front
.	10 9/16" rear
Henderson	10 9/16" front
.	10 3/8" rear
Miami	10 7/8"
.	11 3/8"
Reading Standard	10 7/8"

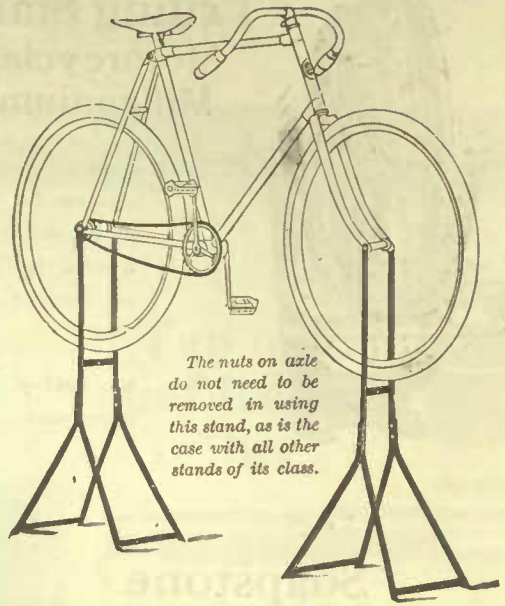
Skate Grinding Holder
See page 32.

Stands, Bicycle



C.C.M. Combination.
(Made in Canada)

- No. 412—C.C.M. Combination Rear Carrier and Stand (6 in package)
 - No. 571—Grey Enamel Each
 - No. 572—Maroon Enamel Each
- For further description, see page 21.

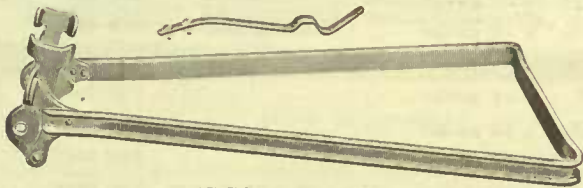


The nuts on axle do not need to be removed in using this stand, as is the case with all other stands of its class.

Perfection Floor Stand.

A valuable fixture in any store for properly displaying a bicycle. It is a silent salesman.

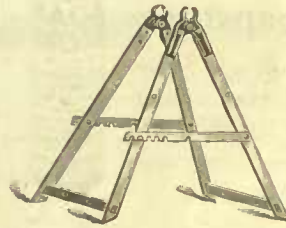
- No. 1971 Per pair



"C.C.M." No. 1974.
(Made in Canada)

Is attached to rear axle and can be used as a shop display stand, or for bicycle delivery work. Made of channel steel, enamelled black. Weight 31 ounces.

- No. 1974 Each



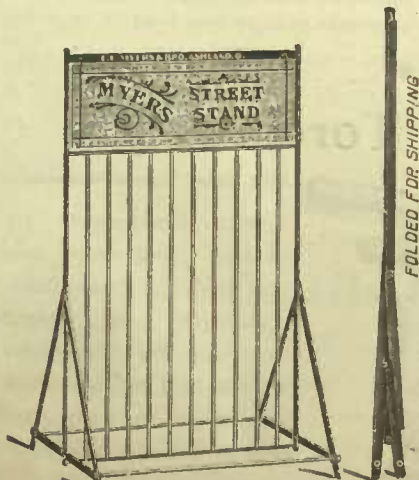
Myers' Open.

Myers' Floor Stand—Excellent to use in showing off wheels. Adjusted to any wheel. Finished in aluminum.

- No. 1970—(3 doz. in box).....
- ... Each



Closed.



Myers' Street Stand.

Street Stand, Myers'

This stand will hold eight bicycles in position and serve for a business sign at the same time. We furnish with plain sign, finished ready for lettering.

- No. 1972.....
- ... Each

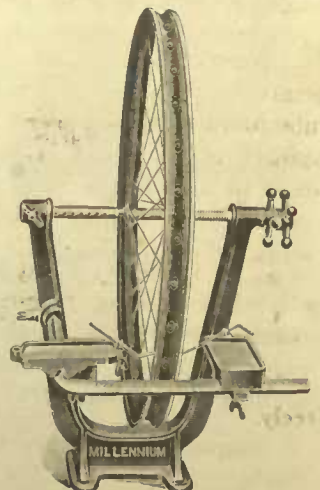
FOLDED FOR SHIPPING

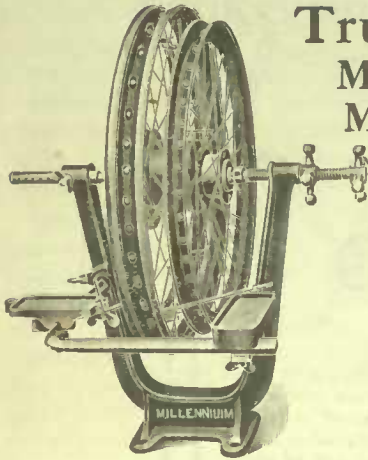
Truing Stand, Bicycle, Millennium

The screws have cupped centres, and will take any spindle. By far the best finished and most convenient stand on the market.

The truing stage is so arranged that the wheels can be trued from back or front of rim.

- No. 1987—Weight, 26 lbs. Each





Truing Stand Motorcycle, Millennium

This stand is suitable for bicycle or motorcycle wheels, and takes all sizes of spindles.

No. 1987—
Price, each

Soapstone

Put up in regular long, slim container, with sprinkler top.

No. 18070—1 lb. sprinkling top (3 doz. in box)Each

No. 18152—1 lb. packages, bulkPer lb.



Use Plenty of Soapstone

A LIBERAL application of Soapstone sprinkled on your inner tubes will noticeably lengthen the life of the tires and give you better service from them.

The Soapstone reduces the friction which would otherwise take place between the tube and the canvas lining of the covers. It also acts as an insulator, protecting the inner tube from the heat generated in the tires when moving quickly under load.

Another trouble which is overcome by the use of plenty of soapstone is the tendency of the inner tube to stick to the cover lining, which "kills" that portion of the inner tube which comes in contact with the outer cover.

When making repairs, Soapstone should, of course, be sprinkled freely over any patches, as an extra precaution to prevent surplus cement from sticking to the cover.

Soapstone costs very little, and should be used freely.

Soaps, Hand Cleaners

Gre-Solvent Uko.

More effective than soap in removing grease and grime. Much in demand by mechanics, laborers and munition workers.

Put up in 10 oz. attractive lithographed cans.

No. 1993Per doz.



Tubing, Steel

The following is a list of sizes on Tubing which have been used in the manufacture of C.C.M. Bicycles. Under ordinary circumstances we have a stock of these sizes at all times and can supply any quantity:

1/8" x 20 gauge	.....Per foot
1/2" x 20 gauge	.....Per foot
3/8" x 12 gauge	.....Per foot
5/8" x 20 gauge	.....Per foot
5/8" x 22 gauge	.....Per foot
3/4" x 18 gauge	.....Per foot
3/4" x 18 gauge	.....Per foot
7/8" x 18 gauge	.....Per foot
7/8" x 20 gauge	.....Per foot
1" x 16 gauge	.....Per foot
1" x 20 gauge	.....Per foot
1 1/8" x 20 gauge	.....Per foot
1 1/8" x 20 gauge	.....Per foot
1 3/8" x 20 gauge	.....Per foot

Other Sizes.—In addition to the above, we have a limited quantity of other sizes of tubing, ranging from 1 1/8" to 1 5/8" in various gauges. These are not now used in the construction of C.C.M. Bicycles, but can be furnished at reasonable prices, subject to prior sale.

Torches

Hot Blast Torch—Gasoline

With attachments for holding soldering iron (not shown in illustration).

Capacity 1 qt., height over all 9 1/2", diameter 4", weight 3 lbs., consumption 1/2 pt. per hour. Improved automatic pump.

No. 19045 ...Each



Taps, Crank Repair

Taper Taps, for tapping out cranks in standard size.

No. 504— $\frac{1}{2}$ " x 20 thread (1 pr. in wooden box) Per pair

No. 528— $\frac{3}{8}$ " x 20 thread (1 pr. in wooden box) Per pair



No. 504.

Tap and Die Sets Bicycle



(Made in Canada)

A most convenient assortment. A complete outfit for ordinary repairs. The dies, being made in two parts, allow a large range of sizes to be threaded with one die.

All dies in this set are adjustable, and will cut $\frac{1}{16}$ " larger or smaller than size marked on die.

No. 2100 (99)—Stock 12 inches; 14 dies, cutting $\frac{1}{4}$ ", 24, 30, 32; $\frac{1}{8}$ ", 16, 18, 20, 22, 24, 26, 28, 32; $\frac{1}{2}$ ", 20, right hand; $\frac{1}{2}$ ", 20, left hand. 23 Bicycle Taper Taps, cutting $\frac{1}{4}$ ", 20, 22, 24, 26, 28, 30, 32; $\frac{1}{8}$ ", 18, 20, 22, 24, 26, 28, 30; $\frac{3}{8}$ ", 16, 18, 20, 22, 24, 26, 28; $\frac{1}{2}$ ", 20, right hand; $\frac{1}{2}$ ", 20, left hand; including one pair tap Wrench Dies.

Price Each

Tap (Crank) and Reamer Set



Bushing.



Tap and Reamer
Four in One.

Contains 1 pair $\frac{5}{8}$ x 24 Taps, R. and L. Hand.

Six $\frac{1}{2}$ " x 20 R. H. Bushings.

Six $\frac{1}{2}$ " x 20 L. H. Bushings.

By drilling out the crank, tapping with $\frac{5}{8}$ x 24 tap, and screwing the special bushings supplied on the pedal pins, a highly satisfactory and permanent job is made.

No. 507—Per set (1 set in box) ..

No. 508R—Extra Bushings, Right.

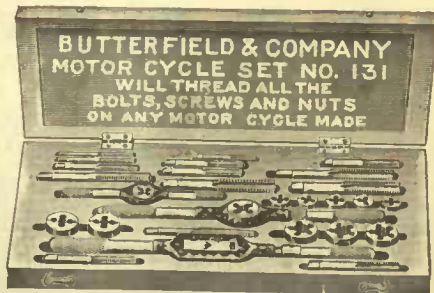
..... Each

No. 508L—Extra Bushings, Left.

..... Each

Bushings packed 12 Rights and 12 Lefts in box.

MOTORCYCLE TAP AND DIE SET.



(Made in Canada)

Tap and Die Sets, Motorcycle

This set will thread all the bolts and nuts in the Yale, Indian, Harley-Davidson, Thor, Excelsior, and other makes of Motorcycles. The only combination put up strictly for this purpose. Consists of one 9" Stock with six 1" dies, cutting $\frac{5}{16}$ "; 24, 28; $\frac{3}{8}$ ", 24; $\frac{1}{2}$ ", 20, 24; $\frac{1}{8}$ ", 24. One 5" Stock with six $\frac{3}{8}$ " dies, cutting $\frac{1}{4}$ ", 20,

24; No. 6, 32; No. 8, 32; No. 10, 24, 32. Ten taper hand taps, cutting $\frac{1}{4}$ ", 20, 24, 26; $\frac{1}{8}$ ", 24, 28; $\frac{3}{8}$ ", 24; $\frac{1}{2}$ ", 24; $\frac{9}{16}$ ", 24; $\frac{1}{2}$ ", 20 R. & L. Four machine screw taps, cutting No. 6, 32; No. 8, 32; No. 10, 24, 32, and one No. 9 tap wrench.

No. 2101 Per set

Useful Information Regarding Tires

We carry the guarantee—We agree with the purchaser of every guaranteed Dunlop or C.C.M. Lucky Tread Tire purchased from us to make good by repair or replacement when delivered to us **transportation charges prepaid**, any imperfection or defect in material or workmanship of such tire not caused by misuse or neglect.

For your convenience we have prepared a **Tire Adjustment Tag** which we will supply free on request.

This enables you to make your own adjustments on the spot, and we will make the same adjustment with you when goods are returned with tag attached.

We reserve the right to discontinue this privilege if it is abused.

The guarantee does not cover punctures, tubes damaged by being improperly fitted in their casings, or covers made unsatisfactory through being oil soaked.

Caution—All inner tubes should be partially inflated before being fitted. They are then less liable to become pinched.

We recommend the use of good grade tires, and while we sell the low-priced kind, too, we want to remind you that, **especially in rubber goods, quality counts.**

A generous application of **Soapstone** when fitting, will reduce inner tube troubles fifty per cent.

Canadian Standard Sizes

Measure straight across wheel from centre of underside. A wheel measuring:—

- 17 inches needs a 20-inch tire.
- 19 inches needs a 22-inch tire.
- 20½ inches needs a 24-inch tire.
- 22½ inches needs a 26-inch tire.
- 24½ inches needs a 28-inch tire.
- 26½ inches needs a 30-inch tire.



In Canadian Standard Size the circumference of the Dunlop rim is always the same—whether for 1¼, 1¾, 1½, or 1⅝ tire.

Unless otherwise specially instructed, all tires are supplied for Canadian Standard Size Rims.

Instructions for Ordering Tires for English Bicycles

Unlike Canadian or American, on English bicycles, the circumference of the rim changes according to the size of tire fitted—the 1¾ rim is greater in circumference than 1½, and the 1½ than the 1⅝. The circumference of English size steel rims for Dunlop wired-on tires is as follows:—

1⅝-78¾ inches; 1½-80¾ inches; 1¾-81¾ inches.

This measurement is taken by passing a tape measure around the extreme edge of the rim—or by marking the rim—giving it one complete revolution on a board and taking the exact distance between the starting and finishing points.

In some cases the markings on the old tire will give this information.

When ordering, please specify whether covers are required for "Wired-on" or "Clincher" beaded edge rims.

Where not mentioned, we will supply the "Wired-on" Dunlop type.

First Class Freight Rate on Bicycle Tires

Bicycle tires are entitled to first class freight rate, but are frequently charged at 1½ times first class rate. This is because tires other than Bicycle take the higher rate in the classification. Bicycle tires, however, are entitled to a rating of first-class.

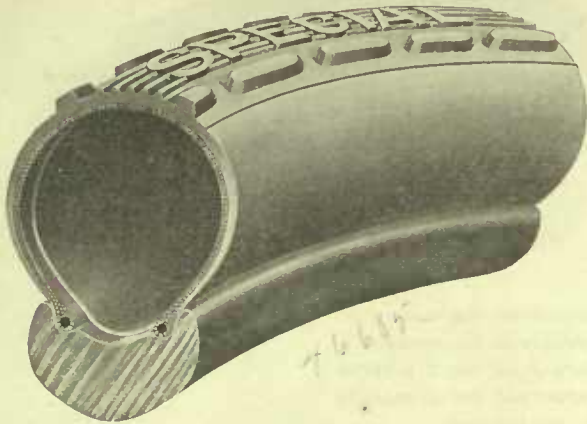
Please check over freight bills carefully and apply for refund in case of overcharge.

Dunlop Tires

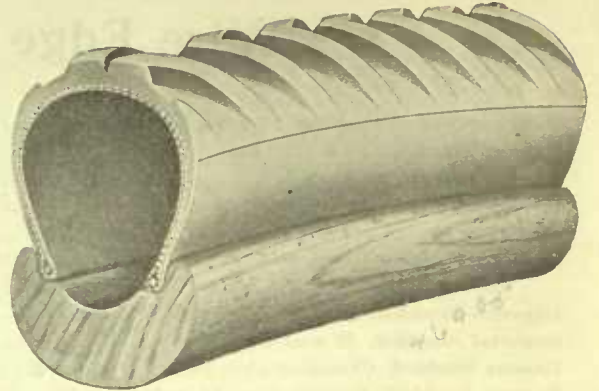
(Made in Canada)

We Carry the Guarantee

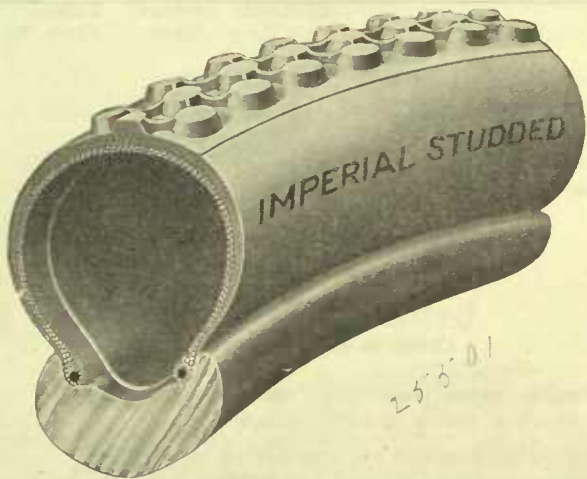
See note on page 62.



Dunlop Special.—Guaranteed 12 months. Standard equipment on C.C.M. Grade "A" Bicycles. Complete, pair. Casings, each. 2.25 Tubes, each.



Dunlop Traction.—Guaranteed 12 months. Optional equipment on C.C.M. Grade "A" Bicycles. Standard equipment on C.C.M. Motorbike Bicycle. Complete, pair. Casings, each. Tubes, each.



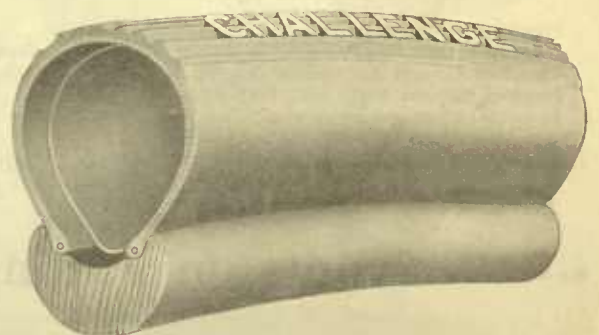
Dunlop Imperial Studded.—Guaranteed for one year. Standard equipment on C.C.M. Grade "B" Bicycles. Complete, pair. Casings, each. 2.25 Tubes, each.



Dunlop Peerless Studded.—Guaranteed 12 months. Complete, pair. Casings, each. Tubes, each.



Dunlop Banner Studded.—Oval button-type tread. Guaranteed for three months. Complete, pair. Casings, each. 2.25 Tubes, each.



Dunlop Challenge.—Corrugated Tread. 1918 stock. Not guaranteed. Casings, each.

NOTE.—We interpret the word "Tire" to mean Cover and Tube; if Cover only required, please specify.

"The Dealers' Interests Are Our Interests."

Dunlop Tire Price List

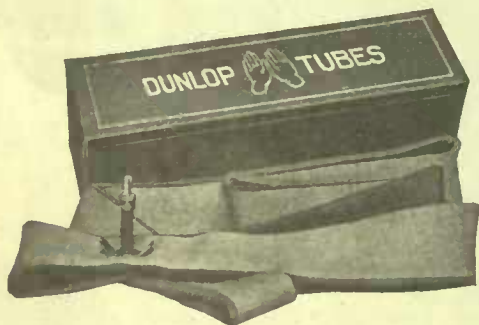
We carry the Guarantee (See note on Page 62)

Wire Edge Type Tires

	Complete Pair Tires	Casings Each	Tubes Each
Dunlop Peerless Studded, 28 x 1 1/2" only	Guaranteed for 12 months		
Dunlop Tractlon, 28 x 1 1/2" only	"	"	"
Dunlop Special, 28 x 1 1/2" only	"	"	"
Dunlop Special, English sizes, 28 x 1 1/2" only	"	"	"
Electric sizes, 28 x 1 1/2" only	"	"	"
Dunlop Hercules Extra Heavy, 28 x 1 5/8" and Extra Heavy Tube	"	"	"
Imperial Studded, 28 x 1 1/2", 26 x 1 1/2"	Guaranteed for season		
Imperial Studded, 20 and 24 x 1 1/2"	Guaranteed for season		
Banner Studded, Canadian size, 28 x 1 1/2" only	Guaranteed for 3 months		
Banner Studded, English size, 28 x 1 1/2" only	Guaranteed for 3 months		
Challenge, 28 x 1 1/2" only. (No Challenge Tube made)	Not guaranteed		

Clincher Type Tires

	Complete Pair Tires	Casings Each	Tubes Each
Hercules Extra Heavy, 28 x 1 5/8", with extra heavy Dunlop Special Tube	Guaranteed for 12 months		
G. & J., 28 x 1 1/2" and 1 5/8"	"	"	"
Dunlop Special, 28 x 1 1/2" only	"	"	"
Imperial, 28 x 1 1/2"	Guaranteed for season		
Banner (Old Style Tread), 28 x 1 1/2" only	Guaranteed for 3 months		



Dunlop Inner Tube.
Packed singly in cartons.

Tubes

(Made in Canada)

All Dunlop Tubes made from same material, but in different weights, which in 28" sizes are:

- Dunlop Extra Heavy, 9 oz., guaranteed 12 months.
- Dunlop Special, 8 oz., guaranteed 12 months.
- Dunlop Imperial, 7 oz., guaranteed 1 season.
- Dunlop Banner, 6 oz., guaranteed 3 months.

Dunlop Special Continuous, 28" (Guaranteed)	Each
Dunlop Extra Heavy Continuous, 28" x 1 5/8" (Guaranteed)	Each
Clincher G. and J. Continuous, 28" x 1 1/2", 1 5/8" (Guaranteed)	Each
Dunlop Special Butt end, 28" (Guaranteed)	Each
Imperial Continuous or Butt end, 28" x 1 1/2", 26" x 1 1/2" (Guaranteed)	Each
Imperial Continuous or Butt end, 20" and 24". (Guaranteed)	Each
Banner Continuous, 28" x 1 1/2" only (Guaranteed)	Each

NOTE.—Dunlop Special Tubes supplied with Peerless Studded, Tractlon Tread, Dunlop Special and Electric Tires.

Use plenty of Soapstone

Hints on Putting Tires on Rims

It is advisable to take the wheel out of the frame.

First see that the spokes do not project through the nipples and that the rim is properly taped.

Lay the wheel flat. Lay casing on rim. Inflate the tube slightly. Pull back cover at valve hole, place the valve in the hole and tuck tube inside the cover.

Draw valve out slightly, place cover in rim at valve hole, at the same time pushing the valve as far as possible through the rim.

Commence from the valve to place cover in rim, working half way round the rim to the right, then half way round the rim to the left, finishing at a point opposite the valve.

Inflate tube slightly and spin wheel to see that tire is on evenly all the way around before pumping the tire hard.

Prices Subject to Change Without Notice.

Tires (Continued)



“Lucky Tread” Tires and Tubes

Guaranteed for the season. 28" x 1½" only.

Complete Per pair
 Casings Each
 Lucky Tread Tubes—28" x 1½" (guaranteed).
 Continuous Each

Tires, Single Tube

Enduro



Enduro—Single Tube, 28" x 1½" Per pair

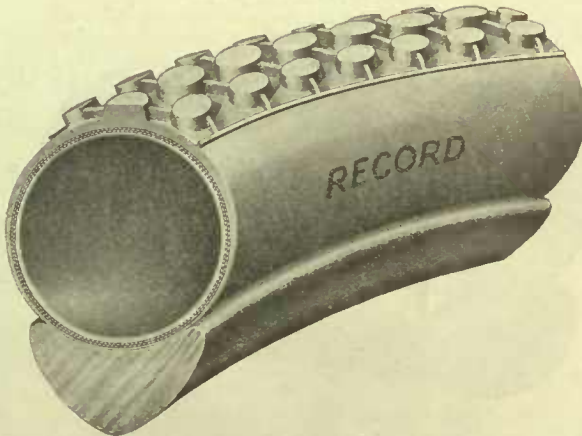
Brigadier



Brigadier—Single Tube, 28" x 1½" Per pair

“Record” Studded

Guaranteed 60 days.

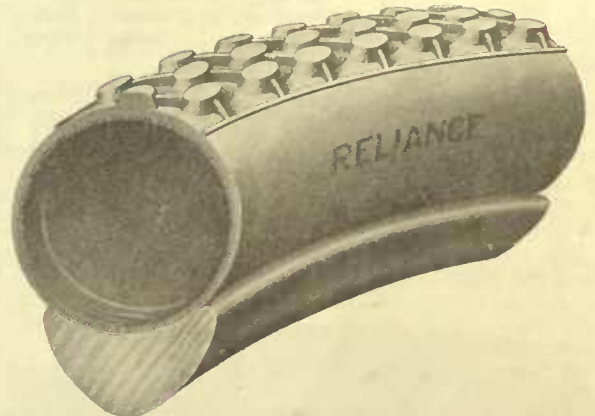


Record—Single Tube, 24" x 1½" Per pair
 Record—Single Tube, 26-28" x 1½" Per pair
 Record—Single Tube, 30" x 1½" Per pair

We do not stock Record Double Tube Tires.

“Reliance” Studded

(Not Guaranteed.)



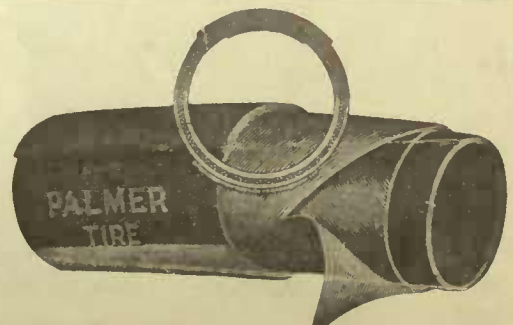
Size 28" x 1½" Per pair

Palmer

(Not Guaranteed.)

Palmer Single Tube Tires are supplied in two styles
 —Road and Light Racing or Track.

Track Racing—26" x 1" x 1½" x 1¼". Per pair
 28" x 1" x 1½" x 1¼". Per pair
 Road Racing—26" x 1½" x 1¼" x 1¾". Per pair
 28" x 1½" x 1¼" x 1¾". Per pair



“The Dealers’ Interests Are Our Interests.”

Tires (Continued)



"Juvenile"

Goodrich Single Tube
—These tires have given excellent satisfaction.
Supplied as follows:
Per pair.

- 20" x 1 3/8"
- 24" x 1 3/8"
- 26" x 1 3/8"

Tires, Carriage, Dunlop Pneumatic Clincher and Wire Edge Type. (Not Guaranteed.)



Tires Complete Each.	Covers Each.	Tubes Each
----------------------	--------------	------------

- | | | |
|---------------------------|--|--|
| Runabout—36" x 1 3/4" ... | | |
| 34" x 1 3/4" ... | | |
| Stanhope—36" x 2" | | |
| 34" x 2" | | |

Butt End Carriage Tubes same price as Runabout and Stanhope in their respective sizes, viz.: 1 3/4", 2".

29 3/4" Rim requires 32" Tire. 31 3/4" Rim requires 34" Tire. 33 3/4" Rim requires 36" Tire.

When ordering, please specify whether Tire is required for Wire Edge or Clincher Type Rim.



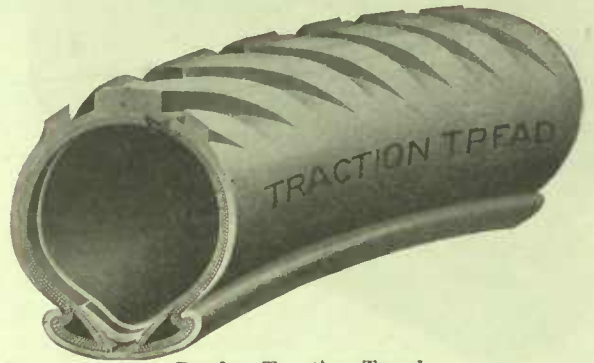
Dunlop Sulky—Wired-on—Guaranteed for season—

Tires Complete Per Pair.	Covers Each.	Tubes Each.
--------------------------	--------------	-------------

- | | | |
|-------------------|--|--|
| 26" and 28" | | |
|-------------------|--|--|

Tires

Dunlop Motorcycle Traction Tread



Dunlop Traction Tread.

Clincher Type, to fit all standard American Rims.

Size
Inches.

- *26 x 2 1/4 for 1912 Rims.
- *26 x 2 1/2 for 1912 Rims.
- 28 x 2 1/4 for 1912 Rims.
- 28 x 2 1/2 for 1912 and B. B.—O. Rim.
- 28 x 2 3/4 for B. B. and C. C.—M. Rim.
- 28 x 3 for C. C. M. Rim. Extra Heavy Service Type.

*Also made to fit English size rims.

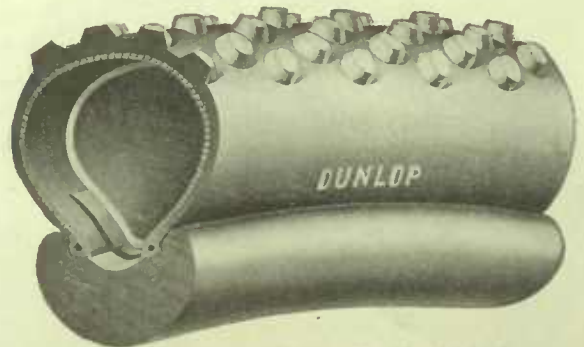
Dunlop Rubber Studded.

Clincher Type, for 1912 American Rims only.

In following sizes:—

- 26 x 2 1/4, 26 x 2 1/2, 28 x 2 1/4.

Studded



Wire Edge Type, Rubber Studded Tread.

For Canadian Rims only. For Light Machines. Regular Equipment on C.C.M. Motorcycles. Size 28 x 1 3/4.

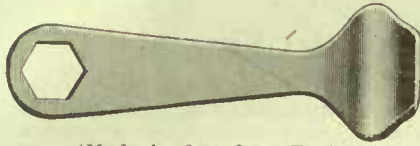
NOTE.—When ordering 28" tires state whether required for B. B. or C. C. Rims. B. B. Rims are 1.50 inches (1 1/2") wide between clinches, and C. C. Rims are 1.65 inches (1 13/20") wide between clinches.

Owing to the unsettled conditions of the rubber market, and to the fact that our catalogue is in your hands for a year, we are not giving you prices on motorcycle tires. All prices are subject to change without notice, and we sell at all times at the current Dunlop quotations.

Prices Subject to Change Without Notice.

Tire Deflator

Saves time and trouble, as you will avoid getting dirt into valve.
No. 2200 Each



Tire Levers

(Made in Our Own Factory)

Tom Thumb—Will remove the tightest cover from rim with ease. Will not damage rim or injure tire. Nicely finished. For best results use two levers at once.
No. 2161—Per doz.

Tape, White Rim



For taping inside of rim, covering spoke ends, to protect tube. Put up in rolls of 72 yards.

No. 2133... Each

(Some of our stock is in 36-yd. rolls, two of which will be supplied in place of one 72-yd. roll.)

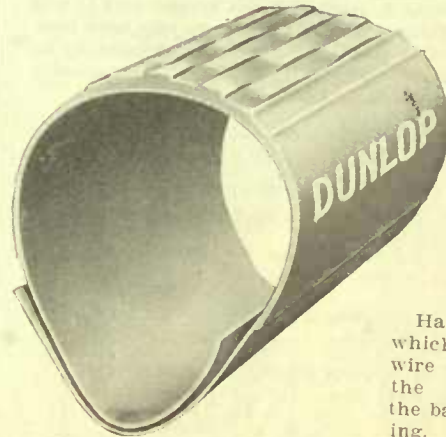
Tire Tape



C. C. M. (Made in Canada)

Made in the best canvas backing with pure Para rubber, and warranted to retain its adhesive qualities for one year. Supplied in 1 oz., 2 oz., and 1/2 lb. rolls.

- No. 2130—C. C. M., 1-oz. rolls, 16 in 1-lb. carton Per lb
- No. 2131—C. C. M., 2-oz. rolls, 8 in 1-lb. carton Per lb
- No. 2132—C. C. M., 1/2-lb. rolls Each



Tire Repair Bands

(Bicycle)

Have two flaps, which fit over the wire edge and under the rim, keeping the band from creeping.

For repairing cuts, blow-outs, etc., on outer cover. Makes a smooth and permanent repair. Width 2" and 4". Two dozen in bundle.

- No. 1650—2" x 4" Per dozen
- No. 1651—4" x 4" Per dozen

Tire Sleeve, Motorcycle



Tough, flexible; wear like iron; fitted with rawhide strap for attaching. A necessity for blow-outs, cut or weakened tire. Supplied in plain tread only.

No. 2180—6" x 7", with straps Each

Dunlop Electric Reliance



(Made in Canada)

- No. 2150—1-oz. roll, 16 in 1-lb. carton... Per lb
- No. 2151—2-oz. roll, 8 in 1-lb. carton... Per lb
- No. 2152—1/2-lb. roll Each

Tire Band, Non-Skid Motorcycle



Set of six, for placing at regular intervals on rear wheel; will prevent skidding or slipping in mud, snow, slush, etc.

Directions—Strap the sleeve, or non-skid tire band, in desired position and as tightly as possible before tire is fully inflated. Complete inflation and tire will be ready for use.
No. 2190—Size 3 1/2" x 7" each, with straps Per set of six

Tire Levers, Motorcycle

One special shaped lever starts tire away from rim, each of other two digs under bead of tire, pulls bead over rim and hooks on to spoke. Levers 7" long, dull finish. Packed in enamel duck case.



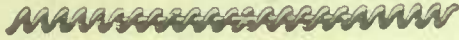
No. 2162 (710)—Per set of three

No. 710 Set.



Tiring, Baby Carriage

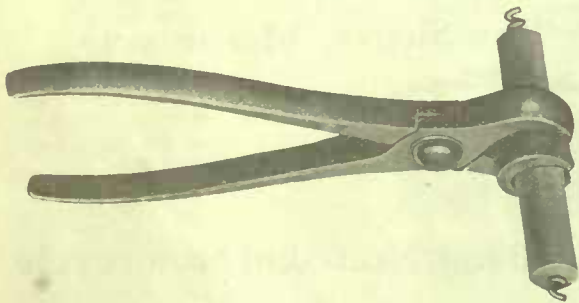
North Pole



This brand of Baby Carriage Tiring is very popular with repair men, because it can be easily fitted in much less time than the regular kind, and requires no tire fitting machine. There is positively no waste, and it will not gape open at joint. Will not creep on rim, and having no hollow centre, wears longer. In addition to its unique mechanical features, it is made of high quality rubber, which ensures long life.

- No. 2235— $\frac{3}{8}$ " , with Joining Pins, 60 feet in roll.
Weight per roll 6 $\frac{3}{4}$ lbs. Price, per foot
- No. 2236— $\frac{7}{8}$ " , with Joining Pins, 60 feet in roll.
Weight per roll 7 lbs. 10 oz. Price, per foot
- No. 2237— $\frac{1}{2}$ " , with Joining Pins, 60 feet in roll.
Weight per roll 9 lbs. 3 oz. Price, per foot
- No. 2238— $\frac{5}{8}$ " , with Joining Pins, 60 feet in roll.
Weight per roll 15 lbs. Price, per foot
- No. 2239— $\frac{3}{4}$ " , with Joining Pins, 60 feet in roll.
Weight per roll 22 $\frac{1}{2}$ lbs. Price, per foot

Gripping Pliers and Joining Pins for North Pole Tiring



Gripping Pliers.

No. 2245—Gripping Pliers for use in fitting North Pole Tiring Each

Instructions When Using Gripping Pliers on North Pole Baby Cab Tire.

"In order to obtain a secure grip, it is always advisable to insert a piece of thick cloth (a piece of old cycle cover answers admirably) between the rubber and pliers, as this not only increases the surface to be gripped and so gives a securer hold, but also protects the tiring from damage from the pliers."

Joining Pins

- No. 2240—Extra Joining Pins for sizes $\frac{3}{8}$ " , $\frac{7}{8}$ " , $\frac{1}{2}$ " and $\frac{5}{8}$ " Per 100
- No. 2241—Extra Joining Pins for size $\frac{3}{4}$ " Per 100

How to Fit

1. Place tire on bed of rim to get length. In case of a 25" wheel, cut rubber, with a sharp knife, 3" short of the actual circumference. Sever the steel centre with a cold chisel, by placing the cut portion over a piece of steel.
2. Place one of the steel joining pins supplied, 1 $\frac{3}{4}$ " long, in a vise, leaving half of it projecting. (Pins 1 $\frac{3}{4}$ " long are supplied for $\frac{3}{8}$ " , $\frac{1}{2}$ " , $\frac{7}{8}$ " and $\frac{5}{8}$ " tire, whilst $\frac{3}{4}$ " and larger sections take extra thick pins, 2 $\frac{1}{4}$ " long.)
3. Take one end of the tire already cut, and push same on to the projecting joining pin until the half ($\frac{7}{8}$ ") is inserted.
4. Reverse, placing rubber firmly in vise so that the remaining half of joining pin projects from vise, and then repeat method described in paragraph No. 3 with other end of tire.
5. The tire is now complete and may be sprung on to the wheel, taking care to place the joint on the rim first, and stretching evenly all round.

It is important that tires should not be rolled on to rim and left in twisted (unnatural) condition. Strict observance of this will result in greatly increased wear.

Tiring, Baby Carriage, Regular



Manufactured from superior quality rubber, very resilient, making a smooth, easy running wheel. Will stand a lot of hard service.

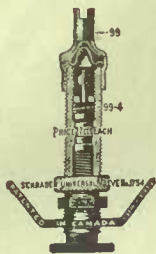
This Tire is exceptionally good value at a moderate price, and is very serviceable. Unguaranteed.

	No. ft. to pound. foot.
No. 2220— $\frac{3}{8}$ x 7/64 hole. 60 ft. in roll...	10.81
No. 2221— $\frac{7}{8}$ x 7/64 hole. 60 ft. in roll...	8.16
No. 2222— $\frac{1}{2}$ x 7/64 hole. 60 ft. in roll...	5.79
No. 2223— $\frac{5}{8}$ x 7/64 hole. 60 ft. in roll...	3.5
No. 2224— $\frac{3}{4}$ x 1/8 hole. 60 ft. in roll...	2.56
All sizes	Per lb.

Tire Wire, Baby Carriage

No. 2230—No. 15 gauge, half-hard, galvanized Per lb.

Valves



Dunlop Metal Base—
This valve is used on all
Dunlop Tires. It is posi-
tively air tight.
No. 2501..Per 100



Schrader Rubber Base
—Complete with stem.
No. 2503...Per doz

Valve Parts, Schrader

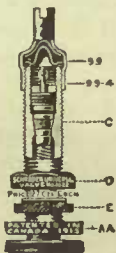


Valve Cap Rubbers.
No. 2520...Per 100

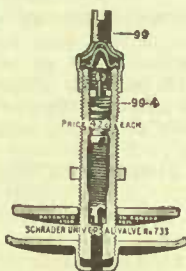


Valve Caps.
No. 2521—(500 in
box) ...Per 100
No. 21101 — Heavy
Valve Cap (Auto)
.....Per 100

Valve, Dunlop Motorcycle



The valve shown here is
the well-known Schrader
line, universally recog-
nized as standard. All
Dunlop Inner tubes are
equipped with it.
No. 2500 ..Per 100



Oval Base.

This valve has a de-
tachable base, and makes
a much better job than
the regular metal base, as
it has a larger surface on
the tire. Owing to its
shape, it cannot pull loose
or cut, even if the tire
creeps, and will hold firm-
ly in tires full of repair
composition.

No. 2505 — (Small)
.....Per 100
No. 2506 — (Large)
.....Per 100

Valve Insides



**Schrader Universal Valve
Interior.**

Used on all types of
pneumatic tire valves.
No. 2535—(5 in tin box,
and 20 tin boxes in a
carton) ...Per 100

"The Dealers' Interests Are Our Interests."

Valve Tool--- C. C. M.



C.C.M. Valve Tool (4 in 1)—A very useful article,
which will execute four repair operations on a valve.

No. 19101—(25 in box)Each

Varnish

Air Drying and Baking.



Supplied in one-pint
tins. Imperial measure.

No. 2553—Air Dry-
ingEach
No. 2541 — Baking
..... Each

Vaseline

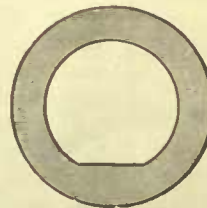


Pure Jelly Petrolatum
is attractively put up in
bottles and 1-lb. cans.

No. 2550 — 5c. bot-
tles (1 doz. in
box) ...Per dozen
5c. bottles..Per gross
No. 2551—1-lb. cans
..... Each

Washers

"Key" and "D," Nickelled



"D" Washer.



"Key" Washer.

These washers are used on the crank axle. They are
furnished in the following sizes:—

5/8", 1 1/8", 3/4", 1 1/8", 7/8", 1".

Cannot obtain 3/4" "D" Nickelled Washers.

5/8", 1 1/8", 3/4"Per 100
1 1/8", 7/8", 1"Per 100

Washers (Continued)



Round Nickel-plated Steel Washers.

Nickel-plated. They can be furnished in the following sizes:—

$\frac{3}{16}$ " $\frac{1}{4}$ " $\frac{5}{16}$ " $\frac{3}{8}$ " $\frac{7}{16}$ " and $\frac{1}{2}$ "
100 in package

Washers, Spoke Nipple Steel Rim

No. 2650—(1,000 in box)Per 1,000 \$2.40

Washers, Wood Rim Spoke Nipple



Plain.

No. 2651—Saw Tooth (1,000 in box)...Per 1,000

No. 2652—Plain (1,000 in box)Per 1,000

Washers, Lock



Put up in a strong tin box of assorted sizes, from $\frac{1}{4}$ " bolt size to $\frac{5}{8}$ " bolt size, advancing by sixteenths of an inch.

No. 22000—Price per box

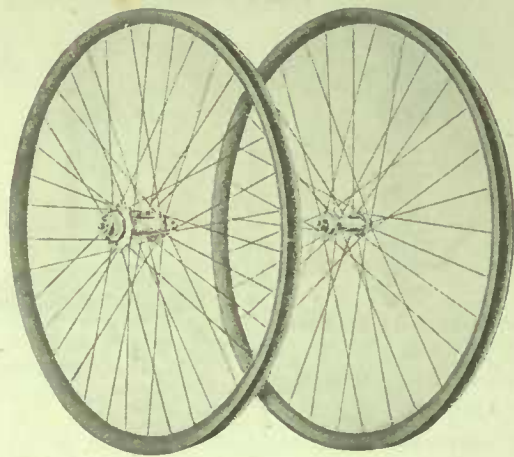
The following sizes sold only in boxes of one hundred:—

$\frac{1}{16}$ $\frac{1}{4}$ $\frac{5}{16}$ $\frac{3}{8}$ $\frac{7}{16}$

Sold only in boxes of fifty:—

$\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$

Wheels, Built-up (Less Tires)



We are offering to the trade, wheels complete, less tires. Fitted with Hercules spokes, Dunlop or Crescent rims and hubs as below.

All built-up wheels supplied with 28" Canadian size rims unless otherwise specified.

We also carry sulky wheels complete, less tires, fitted with knock-out axle hubs, Dunlop rims.

No. 2700—Front fitted with No. 1047 (25) Hub. Each

No. 2701—Front fitted with No. 1036 Comfort HubEach

No. 2750—Rear fitted with No. 1030 Comfort Hub (state sprocket required)Each

No. 2751—Rear fitted with Hercules Coaster Brake No. 308. (State sprocket required).Each

No. 2800—Wheel fitted with Sulky Knock-Out Axle Hub, No. 1040Each

Rear Wheels packed 9 to crate.

Front wheels packed 12 to crate.

Front and rear wheel when ordered with striped rims, as listed on page 52, add difference between natural finish and striped rim.

NOTE.—Wheels ordered with striped rims have to be built up after order is received, which causes some delay.

In ordering, specify whether required with Dunlop or Crescent rims.

Owing to extreme shortage of steel rims we have discontinued cataloguing Built-up Wheels with Steel Rims.

Best Method of Building-up Bicycle Wheels

TO AVOID confusion it is well to lace the nine inside spokes on one side of the hub first. Drop these spokes into the outside countersunk holes of one end of hub. Hold with spoke side of hub toward the operator. Insert spoke into second nipple-hole to right of valve hole. Leave the next three holes to right. In the fourth hole insert the next spoke. Continue in the same way until the nine spokes are laced.

Then turn the wheel with other end of hub upwards and drop the nine outside spokes into their holes. Drop the nine inside spokes into outside countersunk holes on this

side. Each spoke will go into the nipple hole to the right of the opposite spoke already laced, commencing opposite the first spoke laced and working to the right until the nine are done.

This will leave the nine outside spokes hanging loose on the side on which we started. Lace these, each one crossing three spokes to the right and being inserted into the second vacant nipple hole to the right.

Into the nine holes left, drop the nine outside spokes. Turn the wheel over and lace these, each one crossing over three spokes and fitting into the nipple holes left vacant for them.

It will be noted that the holes on one end of hub are not drilled exactly opposite to the holes on the other end, but opposite a point midway between them. This is to allow for the spoke reaching to the rim nipple-hole to the right of the hole taking the spoke from the opposite end of the hub and avoids the necessity of using more than one length of spoke. This applies to both inside and outside spokes.

In tightening the spokes run down each nipple until lower end leaves only last thread of the spoke exposed. To complete tightening be careful to give each nipple the same number of complete turns, in order to keep the wheel true.

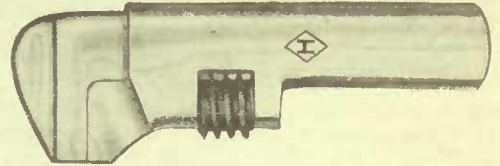
Wrenches



No. 2905-2908.

No. 2905—A well-made wrench of neat design, solid jaws. Opens 1 1/4 inches. **Nickelled and polished.** (12 in box)Per dozen

No. 2908—Same as No. 2905, but in **unpolished nickel** finish. (12 in box)Per dozen



No. 22012 (105)—A handsome, high grade wrench, all steel construction, drop forged, **mottled** finish. Length 4 1/4", jaws 3/4" x 1/4", opens 1 1/2". Weight 6 1/4 oz.Per dozen

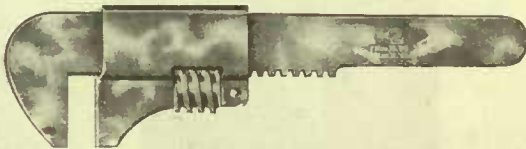


No. 2901 (103)—A well made wrench with drop forged solid jaws, **nickel-plated.** Length 5 1/2", jaws 3/4" x 1/4", opens 1 1/2". Weight 5 1/2 oz.Per doz

Wrench, Pedal, Shop

Specially adapted for attaching and detaching pedals. Opening 5/8".

No. 2907 Dozen



A 2.

Length 5 1/2". Opens 1 5/8". **Mottled** finish.

No. 2906 (A2)—(12 in box)Per dozen

Wrench, B. & S. Shop



B. & S.

B. & S. Shop Wrench—Total length 8". Opens 1 1/2". Thickness of jaw 3/8". Depth of jaw 1 1/4". Weight 16 1/2 oz.

For use on bicycles, motorcycles, automobiles, etc. Drop forged from bar steel. **Semi-finished.**

No. 2912 Each



A3—Tire Lever Wrench.

Length 6". Opens 1 1/4". **Nickel-plated.**

No. 2902 (A3)—(12 in box)Per dozen

Wrench, Sprocket



No. 2913.

Sprocket—To remove rear sprockets from the hub. Made from malleable Iron and fitted with six inches of bicycle chain. 3/16 x 1/2 pitch (suitable for 1/2" or 1" pitch sprockets). Enamel finish.

No. 2913 Each

Wrenches (Continued)

Motorcycle Wrench

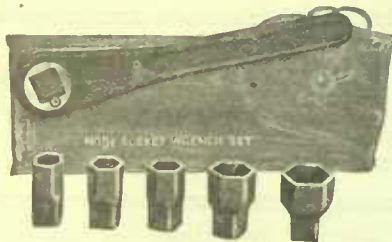


Patent Telescope Wrench.

Finest steel construction. Mottled finish. Dimensions: When closed 6", open 8"; jaws $\frac{5}{16}$ " thick, $1\frac{1}{8}$ " deep. Weight 10 $\frac{3}{4}$ ounces.

No. 2914 (76)—Each in carton (12 in box) Per dozen

Socket Wrench Set



Consists of a ratchet handle and five sockets for hexagon nuts, $\frac{1}{2}$ ", $\frac{3}{4}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ ", $\frac{1}{2}$ ". Semi-finished. Put up in a strong enamelled duck case.

No. 2915 Per set

Engineer's Wrench Set



Set consists of four thin model wrenches, having nine different openings, as follows:— $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{1}{2}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ " and Alligator. Packed in canvas kit.

No. 2916 (715) Per set

Tool Kit



No. 2250.

We have selected for this kit an assortment of tools that are light but strong, and nicely finished. The hammer is drop forged in one piece, and the end of the handle is shaped into a tire tool.

The Kit consists of the following tools in a leatherette case with straps.

- 7" Black Monkey Wrench.
- 5" Nickel-plated, Adjustable Combination Pliers.
- 2" Square Shank Screw-driver.
- 6" Flat File, with handle.
- 4 oz. Hammer and Tire Tool.
- $\frac{3}{8}$ " Drift Punch, Half Polished.
- $\frac{3}{8}$ " Cold Chisel, Half Polished.
- 1 Box Assorted Cotter Pins.

No. 2250 Each

Bicycle Tool Set



Contains one wrench (No. 2908), unpolished, nickel finished.

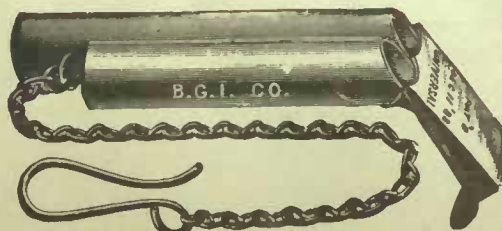
One offer (No. 1376), nickel-plated.

One wire screwdriver (No. 655), carefully tempered and nickel-plated.

Wrapped in neat brown canvas tool-roll.

No. 2918 Per set

Whistles



Universal

No. 2670—It is nicely nickel-plated (1 dozen in box)

Per doz., \$5.20



The Echo Call

No. 2671—Made of brass, highly finished and nickel-plated (1 doz. in box)

Per doz

AUTOMOBILE ACCESSORIES

Columbia Batteries

Columbia Multiple, Multiplex and Hot Shot Batteries

There are a great many places where a unit battery is desirable, and often conditions are found which preclude the use of a single series set of cells, or even a single series set of coils loosely connected. In this case a series multiple battery of dry cells, or a unit battery

of even a single set of cells in series will successfully accomplish the work.

Such service is represented by boat lighting, electric vibrator massage machines, refrigerator lights, auto horns, etc.

(Made in Canada)



Type 356.

Columbia Multiple Battery.

Every cell is insulated from the case and from the other cells in such a way as to make a water-proof and practically damage-proof unit battery. Enclosed in a hermetically sealed, handsomely enamelled metal case, with convenient handles for carrying.

(Not carried in stock at Winnipeg Branch.)

Type	Voltage	Length in.	Width in.
356	7 1/2	13 3/4	8 1/2
Height over all		Weight lb.	Price
8 3/4		50	



Type 356.

Columbia Multiplex Battery.

The only difference between this battery and Columbia Multiple is that the Columbia Multiplex is furnished with a wooden case.

(Not carried in stock at Winnipeg Branch.)

Type	Voltage	Length in.	Width in.
356	7 1/2	14 1/4	8 5/8
Height over all		Weight lb.	Price
8		44	



Type 1562.

Columbia Hot Shot Battery.

A unit battery in an attractive red, moisture-proof case. Particularly useful for ignition, where the variety of sizes makes it adaptable for motors of all sorts—stationary, vehicle or motor boat. It is very satisfactory for carriage lighting outfits.

Type	Voltage	Length in.	Width in.
1561	7 1/2	13 1/4	2 3/4
1562	7 1/2	8	5
Height	Wt. of Std. Pkg.	Std. Pkg.	Price
	lb.		
	284	20	
	274	20	

Explanation of Tables

The type number indicates the number of cells in the battery and the voltage; and if there is a fourth figure, it indicates whether the

cells are arranged in one row or two.

A 1562 Battery is, therefore, made up of one cell in multiple, giving a short circuit current of

about 25 amperes; 5 cells in series, giving a voltage of 7 1/2. The battery is made up of 6-inch cells, and is made in two rows.

Columbia 3-Volt Battery

(Made in Canada)

Can be used for any three volt lighting on cars and to fit any commercial hand lantern now on the market. We are prepared to furnish a three-volt battery in the same size as our regular No. 6 cell. Care should be taken to use a three-volt bulb with this battery. When ordering state whether required with or without connections on top.

(Not carried in stock at Winnipeg Branch.)

- No. 1015—Price, in lots of less than \$5.00 worth at wholesale prices Each
- No. 1015—Price, in lots of from \$5.00 to \$75.00 worth at wholesale prices Each
- No. 1015—Price, in lots of over \$75.00 worth at wholesale prices. Each



With Connections on Top.



Without Connections on Top.

Columbia & Columbia Ignitor Dry Cells

(Made in Canada)



Future Delivery Prices

Not Guaranteed

We cannot guarantee prices for future delivery on Columbia or National Batteries; but we will accept Battery orders for future delivery at prevailing prices at time of shipment.

Columbia and Columbia Ignitor Dry Cells Furnished in Square Cartons or with Fahenstock Connections if Desired.

		Sizes of Zinc Cans	Price each Per Bbl.	Price each Broken Lots
No. 1010—National Ignitor	No. 6	2 1/2" x 6"		
No. 1013—Columbia Ignitor	No. 6	"		
No. 1014—Columbia Regular	No. 6	"		

Carbide



C.C.M.

Put up specially for automobiles and motor boats. The best brand Calcium Carbide.

- No. 2030—5 lb. tins. (1 doz. in wooden case.) Price, doz.
- No. 2028—100 lb. drums. Price, each

Cement

M. & M.

A patch applied with ordinary cement to an inner tube is not a permanent repair, but a patch applied with M. & M. Cement will effect a perfect union. Exceptional quality.

No.	Size	Price Per doz.
2330	1/4 pint	.....
2331	1/2 pint	.....
2332	1 pint	.....
2333	1 quart	.....



This special Rim Chain Connector is used on both "C.C.M. Dreadnaught" and "Maxim Imperial" Chains. This connector is the only type which allows the user to adjust chain properly with a minimum of effort. Positively prevents loss of chains by becoming disconnected.

Chain Lever Hooks



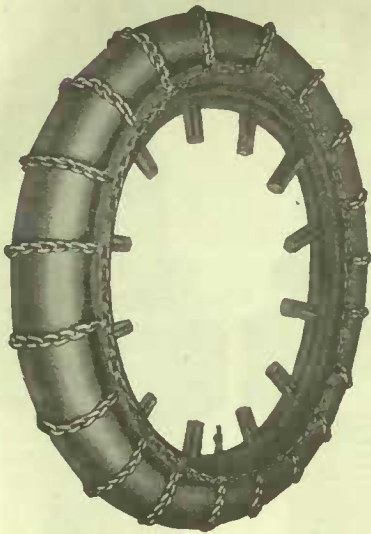
(Made in Canada)

No. 2813—Right, per 100

No. 2814—Left, per 100

Prices Subject to Change Without Notice.

Chains--"C.C.M. Dreadnaught" Tire Chains



(Made in Canada)

Although lower in price than some others on the market, they are made to a quality standard that cannot be excelled, regardless of price.

The Electric Welded Cross Sections, after being inspected and tested, are carefully bone-hardened, resulting in links with a diamond-hard surface and tough inner core, thus assuring a maximum of strength and wear.

Packed one pair in a strong canvas bag.

The Rim Chain is galvanized and Cross Chains copper plated to prevent rust.

A special Lever Rim Chain connector, on which is stamped "Dreadnaught," is used on these chains. (See illustration below.)

Dreadnaught Chains are guaranteed as to quality of material and workmanship, and to give at least same service as the highest priced chain on the market.

No.	Size	Code Word	Per pair	No.	Size	Code Word	Per pair
2074	30 x 3 1/2	Slip		2083	35 x 4	---	
2079	31 x 4	Positive		2089	34 x 4 1/2	Not	
2070	32 x 3	On		2090	35 x 4 1/2	---	
2075	32 x 3 1/2	Hills		2084	36 x 4	We	
2080	32 x 4	Or		2091	36 x 4 1/2	Can	
2081	33 x 4	Mud		2098	36 x 5	Deliver	
2076	34 x 3 1/2	You		2092	37 x 4 1/2	---	
2082	34 x 4	Are		2099	37 x 5	At	

"Maxim Imperial" Tire Chains

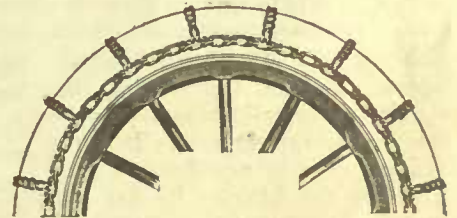
While better value is obtained by purchasing C.C.M. Dreadnaught Chains, Maxim Imperial Chains are satisfactory for light cars, and purchaser will obtain full value.

The special Lever Rim Chain Connector is supplied. (See illustration below.)

The Rim Chain is 1/32" heavier than supplied on other chains of this grade, giving the chain greater durability.

The Cross Sections are polished and not hardened. None of the low priced chains have hardened Cross Sections.

Serial No.	Size.	Price per pair	Serial No.	Size.	Price per pair
2522	30 x 3 1/2		2532	36 x 4	
2523	32 x 3 1/2		2537	34 x 4 1/2	
2524	34 x 3 1/2		2538	35 x 4 1/2	
2527	31 x 4		2539	36 x 4 1/2	
2528	32 x 4		2540	37 x 4 1/2	
2529	33 x 4		2546		
2530	34 x 4		2547		
2531	35 x 4				



(Made in Canada)

Maxim Imperial Repair Cross Chains

(Made in Canada)

These Cross Chains are copper plated to prevent rust.

No.	Size	Per 100
No. 2788	3 1/2"	.....
No. 2789	4"	.....
No. 2790	4 1/2"	.....
No. 2791	5"	.....

C.C.M. Dreadnaught Repair Cross Chains

(Made in Canada)

Electrically welded and carefully bone-hardened, resulting in links with a diamond-hard surface and tough inner core, assuring maximum strength and wear. Copper plated to prevent rust.

No.	Size	Prices per 100
No. 2151	3"	.....
No. 2152	3 1/2"	.....
No. 2153	4"	.....
No. 2154	4 1/2"	.....
No. 2155	5"	.....

Chain Repair Links

(Made in Canada)

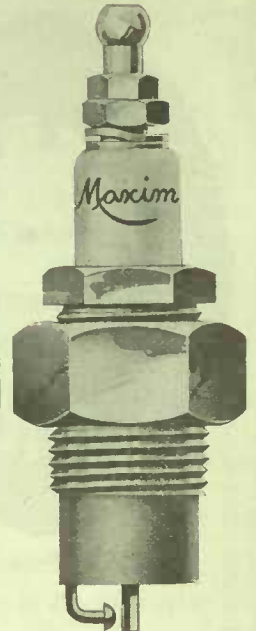
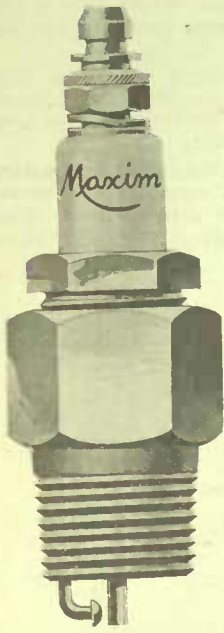
For repairing broken Cross Sections.

No. 11082—Per 100 ...



Maxim Spark Plugs

(Made in Fuse Department of Russell Motor Car Company's Plant.)



Improved Design
Three-in-One Terminals
Accurate as a Time Fuse

No. 1490— $\frac{1}{2}$ inch (Three - in - One Terminal). Price, each

No. 1491—A.L.A.M. (Three - in - One Terminal). Price, each

No. 1494—A.L.A.M., Long (Three-in-One Terminal). Price, each,

No. 1501 — Special Chevrolet A.L.A.M., Long (special Chevrolet Terminal). Price, each

(Each Spark Plug Packed in a Neat Carton)

GUIDED by our previous experience and by a careful study of the principal Spark Plugs on the market, the design has been improved in several important respects. It is no exaggeration to say that we now consider the Maxim by far the best Spark Plug yet produced.

The Three-in-One Terminal does 50% more work than any other, and 200% more than most terminals. It takes the place of a slip terminal, a Buick and a screw connection terminal. It will therefore fit practically any make of Motor Car sold in Canada. The advantage of this to both dealer and motorist is apparent.

A Special Chevrolet Model is also supplied.

The heavy **Ball Point**

which has always been a feature of higher grade Maxim Spark Plugs has been retained. Experience has proven that the Ball Point gathers a heavy pressure of current and produces a strong, rich spark, about **50% more powerful** than is obtainable by the use of other styles of points.

An interesting experiment to prove this to your satisfaction is to hold a number of thin sheets of paper in the course of a spark. The Maxim Spark will burn through twelve sheets, as against eight sheets penetrated by the spark of any ordinary plug.

"Accurate as a Time Fuse" is literally true of the new Maxim Spark Plug. It is made by mechanics who have been accustomed to working to a variation of not over .002, or 2-1000 of an inch, in making the delicate mechanism of

a time fuse. Automatic machines of equal accuracy are used, and the designs, gauges and tools are similarly exact. As a result, all parts are interchangeable.

Allowance has been made in the design for the expansion of the various parts, for variation in the thickness of the porcelains, etc., and, in short, nothing has been neglected to insure the giving of the very best service under all conditions.

Seeing is believing, however, and we suggest that you try this improved Spark Plug for yourself. Our tests have convinced us that it is an article which it will pay dealers well to push, and which they can safely recommend.



Porcelains for Maxim Spark Plug

Only two models are now required.

- No. 1495—Regular Porcelain, with Three-in-One Terminal Price, each
- No. 1502—Special Porcelain, with Chevrolet Terminal Price, each

No. 1495. Regular

No. 1502. Chevrolet.

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