Catalogue No. 7.

& & 1902.

General Illustrated Catalogue



able to give special prices.

A. L. DYKE,

MANUFACTURER AND JOBBER

AUTOMOBILE PARTS * SUPPLIES

Office and Salesroom,

1402 Pine Street, = St. Louis, U.S. A.



Registered Cable Address, "DYKE, ST. LOUIS," International Code.

Long Distance Telephone, Bell, Main 4212 M.

All previous quotations cancelled. Prices subject to change without notice. June 1, 1902.

THRODICTORY.



N Presenting this Catalogue to the Trade it is with the utmost confidence in the goods herein described, as they have all been thoroughly tested. The goods herein illustrated are beyond the experimental stage, and the purchaser can feel assured he is getting exactly what he pays for and not buying an article which has not been thoroughly tested by actual use and therefore cannot be depended upon. We do not wish to make or sell poor, inferior apparatus with nothing to

hold them up but advertising; what we do wish to do is to produce the best goods on the market at a reasonable price and establish a name among the Manufacturers and Dealers and users of Automobiles which will insure a legitimate and profitable business for years to come.

WE ARE THE ORIGINATORS of this line of business. The First concern in America, or possibly the world, was known as The Automobile Supply Co. This business was originated by A. L. DYKE, and they issued the First Catalogue on Automobile Supplies in America. This Company was organized and incorporated under the name of The St. Louis Automobile and Supply Co., who continued the manufacture of A. L. Dyke's machines, until they sold out, and Mr. Dyke started for himself.

From the valuable experience thus acquired, we are placed in a position to furnish all the latest and best Auto parts, and our testimonials will certainly show that our material is giving entire satisfaction.

MPORTANT. SEESE

This Catalogue has been carefully com-piled by us for the benefit of every one using this class of goods.

We trust, therefore, that it will be care-fully preserved for future reference, and that we may be favored frequently with

All Prices subject to change within the market.

All Claims must be made within 10 days after receipt of Goods.

All Packages Merchandise ordered sent

by mail, will, unless explicit directions to contrary are given, be subject to charge for registration. The frequency of losses of registration. The frequency of losses of goods sent in open mail, makes this rule imperative

State whether you wish material shipped

by Freight or Express.
Customers returning goods will please mark their names plainly on the boxes or packages, and advise us by mail, giving exact memoranda of articles returned, that we may make proper credits.

All prices quoted are based on the expectation of receiving funds par in St. Louis.

The collection of cheeks on local banks involves delay and expense, which especially in the case of very small amounts, cause inconvenience and considerable loss. We trust therefore, that our friends will remit us either in cashier's checks on some one of the larger cities, Postal or Express Money Orders, or Currency by registered mail.

Parties sending Stamps, will confer a favor by remitting those of the denomination of 1 cent or 5 cents, when it is possible. But Postage Stamps make a very undesirable currency.

"C. O. D." orders should be accompanied by at least 25 per cent. of the estimated amount of invoice to guarantee us against loss in case shipment is for any reason refused.

DISCOUNT TO THE TRADE.

REDIDIREDIO DIS.

Special report from Dun's or Bradstreets, or the Missouri Trust Co., where we do our Banking business.

A. L. DYKE.

1402 PINE STREET,

ST. LOUIS, MO., U. S. A.

DYKE'S No. 0 AUTOMORETTE. HVDRO-CARBON.

This machine is designed for general runabout purposes. It will carry two with ease, and the power and ease of operation

We do not sell this Machine completed, as shown in illustration, but we sell all the parts finished ready for assembling, or the Castings and Working Drawings.



THE ADVANTACES OF CASOLINE AS A MOTIVE POWER.

First-It is absolutely safe. Second-Its cost of operation is lower. Fourth-It requires less attention. Fifth-It is more easily understood.

Sixth-It is easier to operate. Seventh-It requires no technical knowledge. Third-Its range of operation is greater. Eighth-The fuel is obtainable everywhere. Ninth-It can be repaired at the roadside. Tenth-It can be sold at a popular price.

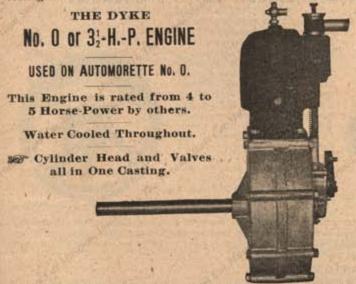
DESCRIPTIVE POINTS.

Power-Gasoline. Engine-Single cylinder, four cycle, developing three and one-half horse-power (others rate more for same size engine). Ignition-Jump Spark.

Cooling—Self-circulating or by means of small pump, as desired. Drive—To transmission, which gives a high and low gear by means of friction rings, then to sprocket or rear axle. Running Gear—Dyke's standard type, No. 0 Flexible Reachless Gear, with improved spring arrangement and radius rod. Bearings—Ball bearing front wheels and plain bronze rear axle bearings. Rear Axle—Solid from one end to the other, with improved compensating device. Radius of Travel—One tank of gasoline and one tank of water, 40 to 50 miles. Larger capacity of gasoline and water if desired. Cost of Operation—½ cent per mile. Carburetter—Dyke's Float Feed Carburetter. Positive in summer or winter. A proper mixture at all times, hence more power. Combustion—Complete. Odor—None. Exhaust—Almost noiseless. Danger—Absolutely none. Tools—Carried under front seat. Spark Coil—Dyke's Jump Spark Coil with Vibrator—operated on 6 volts and ½ amperes. Speed—Variable up to 18 or 20 miles per hour. Grades—Will climb any ordinary grades. Starting—By crank. Stopping—Powerful Band Brake acting on rear differential. Control—Shifting igniter and lever "C" on Carburetter. Alarm—Dyke's "Goo-Goo" Chime, double tone gong. Wheels—28 inch wire tangent spokes. Tires—Pneumatic, 28x2 inch, or larger, as desired. Weight—About 500 pounds. Seats—2 people. Dimensions—78 inches over all.

EASE OF CONTROL—The Control is perfectly simple. You can start immediately at any speed the road will permit (up to 18 miles per hour) by merely pushing a lever forward. The guiding lever practically controls the speed and direction, and is handled as easily as a bicycle. One turn of the starting crank starts the engine. The vehicle can be stopped in its own length by pressing on a foot-brake lever.

SIMPLICITY—For our light machine we have patterned to some extent after the system adopted by the people of France, the home of the Automobile. The trend of all manufacturers of automobiles is toward simplicity. We have kept this one point in view above all others. In our experiments we have discarded all methods not easily mastered, employing all our skill toward perfecting an automobile which can be handled with little trouble.



The above illustration shows Water-cooled 31/4-Horse-Power Gasoline Engine.

The Cylinder, Cylinder Head and Valves are all in one casting.

We make the shaft any length when not used with No. 0 Machine.

Aluminoid Crank Case.

Two Fly Wheels run inside of Crank Case. Self-oiling. Jump Spark Ignition.

Shifting Igniter.

Speed from 200 to 1800 revolutions per minute. Stroke, 4 inches. Bore, 4 inches. Crank Case, 12 inches in diameter. Width, 5 inches. Height, 22 inches. Weight, 110 pounds. Engine Shaft, 1% inches in diameter. We leave shaft projection of 8 inches, or longer if desired.

The following Accessories are necessary to operate the Engine: Carburetter, Spark Coil, Igniter Plug, Batteries and a Muffler.

No packing is used on this Engine, no facing and fitting of Head and Cylinder.

PRICE OF ENGINE, COMPLETE, WITH ALL ACCESSORIES \$160.00 List 140,00 List PRICE OF ENGINE, WITHOUT ACCESSORIES

DYKE'S No. 0 No. 0 RUNNING GEAR-SIDE VIEW. FLEXIBLE REACHLESS RUNNING GEAR

No. 0 RUNNING GEAR-TOP VIEW

Please take notice of the improved spring arrangement, doing away entirely with reaches; also note arrangement of radius rod,

which keeps the chain at the proper tension at all times.

No binding of bearings on this gear. Front wheels independent of the rear wheels. When the springs go down the chain stays the same tension. The radius rod pushes the rear axle back.

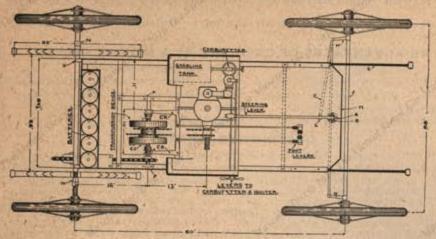
Did you know that if you run your chain at an angle to the rear sprocket that it would jump the sprocket every time the springs went down—unless you was provided with a radius rod?

Look this matter up. (See Running Gear pages.)

SPECIFICATIONS.

Track—41 in., or 4 ft. 8 in. Wheel Base—60 in. to 72 in. Wheels—28 inches, wire. Tires—28x2 inches. Width between Angle Iron Frame on 1 op—22 inches. Length of Angle Iron Frame—66 inches, Rear Axle—1 inches. Front Axle—1 inch. Differential—Inclosed, with Band Brake cast on same. Sprocket—30 teeth attached to differential. Springs—"Rubber Head" type, new arrangement. Steering—By lever. Wheel or side steering at additional cost. PRICE OF No. O GEAR, COMPLETE, LESS TIRES ________8120.00 List 35.00 List SET 28x2 INCH PHEUMATIC TIRES

SECTIONAL VIEW OF DYKE'S AUTOMORETTE No. 0.



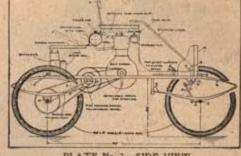
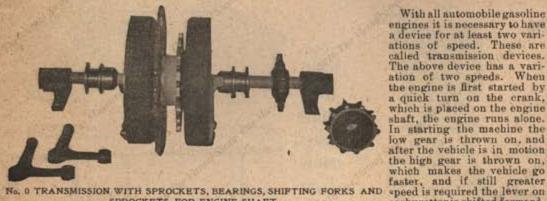


PLATE No. 3. TOP VIEW.

THE ABOVE VEHICLE IS CONSTRUCTED IN BRIEF AS FOLLOWS:

On a set of springs of new arrangement is mounted two lengths of linch angle iron; at front end two forgings receive the angle iron and at the rear a leinch steel bar goes across from one spring to the other. The engine is mounted on cross pieces of leinch angle iron, also the transmission device. Two 10-tooth 1x¼-inch sprockets are keyed to engine shaft. Two 1x¼-inch chains go from these sprockets to the two sprockets on transmission, one sprocket is 18-tooth and the other 30-tooth, 1x¼-inch. A 10 tooth sprocket 1x¾-inch is also on the transmission shaft, and a 1x¾-chain goes back to rear sprocket on differential, which is 30-tooth. The engine is started by a crank, and either the low or high gear is thrown on by shifting the bell cranks "C 2." The speed is varied by operating levers to carburetter and igniter on the side (see Plate 3). By connecting the wiring with steering lever handle or grip the igniter connection can be interrupted, thereby causing the engine to slow down, etc., in crossing car tracks, etc. This little machine will do good work if properly cared for and makes very little noise.

DYKE'S NO. O TRANSMISSION AND ACCESSORIES FOR NO. O MACHINE.



SPROCKETS FOR ENGINE SHAFT.

With all automobile gasoline engines it is necessary to have a device for at least two variations of speed. These are called transmission devices. The above device has a variation of two speeds. When ation of two speeds. When a quick turn on the crank, which is placed on the engine shaft, the engine runs alone. In starting the machine the low gear is thrown on, and after the vehicle is in motion the high gear is thrown on, carburetter is shifted forward. END VIEW No. 0 TRANSMISSION



When very steep hills are encountered it is then necessary to throw on the low gear, as this low gear requires less power from the engine. It is possible on a level or slight grade to go as slow as desired even with the high gear by varying the spark and valve on carburetter. The No. 0 Transmission device is designed for the light No. 0 Machine, but is also suitable for other machines not over 550 pounds weight. Made of best material throughout with vital parts case bardened.

SPECIFICATIONS.

Speed-2 forward.

High Gear Sprocket-30-tooth 1x1/4 inch. (1x1/4 extra, \$3.) Low Gear Sprocket-18-tooth 1x1/2 inch. (1x3/2 extra, \$2.) Drive Sprocket Going to Differential-10-tooth 1x3/2 inch. Sprocket on Engine Shaft-2-10-tooth lx 1/2 in. (Ix 3/4 extra \$1.)

Weight-29 pounds. Total Length of Shaft-18 inches.

Diameter of Shaft—% inch.
Shaft Bearings—Bronze, made to bolt to angle iron frame.
Friction Lever and Special Ball is of hardened steel adjustable to wear.

Price of No. 0 Transmission Device, complete with Sprockets and Shifting Levers or Forks... No. 0 Transmission Device in the rough, all Castings and Working Drawings

We make this Transmission device with lx % sprockets instead of lx % and also longer length of shaft at slight additional cost when parties desire it.

NO. O OUTFIT, PARTS FINISHED, WITH WORKING DRAWINGS.

The following is a list of principal parts necessary to constr. No. 0 Engine, complete with all accessories, including List. Col. Carburetter, Muffler, Plug, Batteries, etc	Hose for connecting tank. %-inch Copper Pipe for connecting carburetter with gasoline tank. Insulated Wire for connecting igniter with batteries	List. 83.00 1.50 1.00 3.50 50
Working Drawings Automorette Body 4.00 Gasoline Tank 10.00 Water Tank 10.00	Radiating Tube (optional)\$35.00 Pump (optional)	50

No. o Engine Castings.

This is undoubtedly the most complete set of Engine Castings offered by any concern. We include everything necessary to build this Engine, together with a good clear set of Working Drawings.

A set of No. 0 3% H. P. Engine Castings consists of all Iron, Brass, Bronze and Composition Castings; Cylinder, Cylinder Head and Valves all one Casting.

Aluminoid or Iron Crank Case.

Two Balance Wheels with Counter Weights.

Piston.

Ring Casting.

Gear Case Cover.

Igniter Cover.

Inlet Valve.

Exhaust Valve Guide.

Muffler Castings.

Connecting Rod-Bronze.

Main Shaft Bearing Bushings-Bronze.

Exhaust Gear Blanks-Brass.

Exhaust Valve Forging.

Inlet Valve Forging.

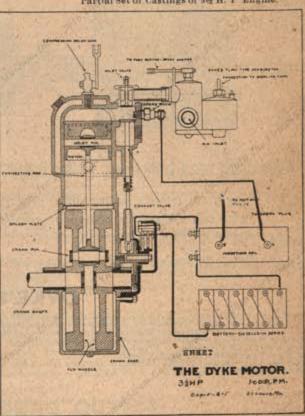
Price of Castings for 3%-H. P. Engine, cast iron	Lista
base	\$30 00
With Aluminoid Crank Case Instead of Iron	40 00

PRICE OF MACHINE WORK.

3½ Horse Power No. 0 Engine.	Net.
Set of Bolts, Nuts, Springs and Valves	\$25 00
Boring Cylinder and Facing	5 00
Finishing Cylinder, complete	10 00
Igniter, complete	6 00
Fitting Piston and Rings	4 00
Turning up Crank Shaft and Fly Wheels and Fitting	18 00
Turning up and Cutting Exhaust Gears (2)	2 50
All parts for Igniter, including fibre, screws, plates, etc., machined, but not assembled	5 00
cases	18 00
Casting for stand to put under engine when running engine for stationary purpose	2 00

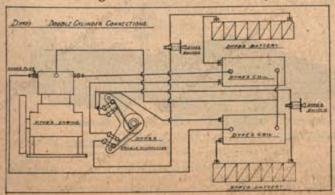


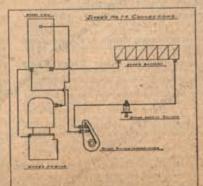
Partial Set of Castings of 3th H. P Engine.

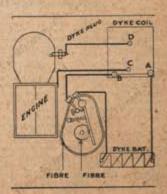


Sectional view of 312 H. P. Engine showing plan of connection, etc.

Diagram of Connection for Dyke's Jump Spark Coil for Various Systems of Ignition.

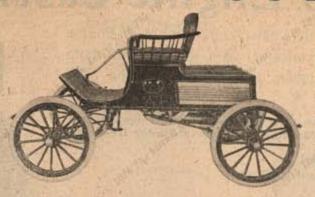




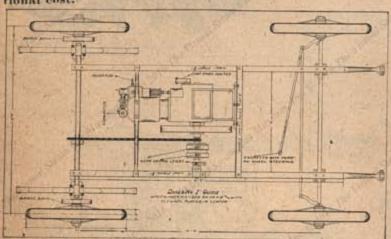


DYKE'S NO. 1 OUTFIT.

This Machine is a very desirable one for rough usage. It is a medium weight vehicle and very powerful for its size. The engine used is Dyke's No. 1 6-H.-P. Engine. The Engine, is water-cooled, water being carried in a pair of copper corrugated tanks placed in the side of the body. Water has a natural circulation-no radiating tubes or pump is necessary. The Transmission gives two speeds ahead and reverse. The tunning gear is Dyke's No. 1 Gear, Wheels are wood or wire, 28-inch diameter, with a 3-inch pneumatic tire. We furnish, however, any size tires or wheels desired. Larger Tires at additional cost.



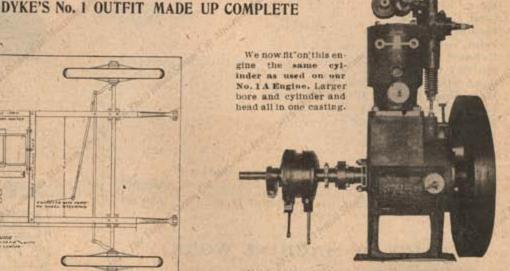
The Tank in the side of the body can be left out if desired. but it will be necessary to use a Radiator and Pump and place tank inside in rear.



TOP VIEW OF DYKE'S REGULAR NO. 1 OUTFIT.

NOTE SIMPLE CONSTRUCTION THROUGHOUT.

We can furnish this outfit with fly wheel in center if desired. See illustration above. We also supply the Upton Encased Transmission, if



NO. 1 HORIZONTAL IZONTAL TYPE DYKE'S 6-H.-P. GASOLINE ENGINE.

(With Transmission Direct Connected.) We now supply either Upton or Champion Transmis-slon, as shown on page 9, if desired.

By purchasing these parts any ordinary mechanic can easily put this machine together.

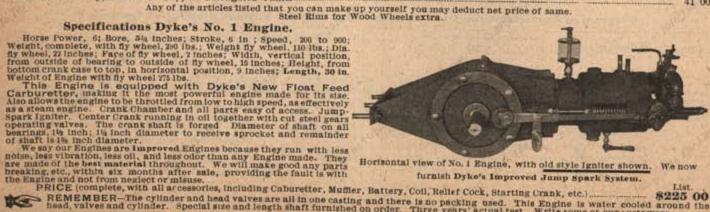
DYKE'S OUTFIT No. 1.

Dyke's No. 1 Horizontal Type Engine, with cylinder head all in one casting and water cooled around the valves, including all accessories, which are: Carboretter, Jump Spark Coil, Jump Spark Plug, Battery, Oil Cup, Starting Crank and Muffler. Price No. 2 Transmission Device, complete, with Coupling, Sprucket, Outer Bearing, etc. Price Dyke's No. 1 Flexible Reachless Running Gear, with 28x5, or 20x3, or 32x3 wire or wood wheels, complete, less tires One Set 28x3 Pneumatic Tires at \$15 each.

10 Feet 18x4 Baldwin Roller Chain Copper Corrugated Water Tanks, to go in the side of the body.

Body in the white List. 8225 00 100 00 142 00 60 00 15 00 15 00 32 00 This makes up a regular \$1,000 machine. No trouble whatever in assembling our machines. They are simple.

Specifications Dyke's No. 1 Engine.



Horizontal view of No. 1 Engine, with old style Igniter shown. We now furnish Dyke's Improved Jump Spark System.

\$225 00 REMEMBER—The cylinder and head valves are all in one casting and there is no packing used. This Engine is water cooled around the head, valves and cylinder. Special size and length shaft furnished on order. Three years' actual test. Write some or our customers.

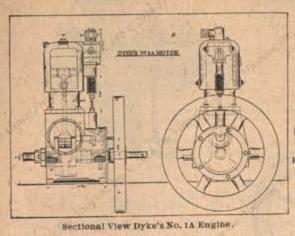
Culinder

and head,

casting-No Packing to blow.

are in one

DYKE'S 6 H.=P. TONNEAU.

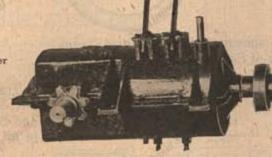








THIS TRANSMISSION DEVICE, together with the Bevel Gears, are encased and running in oil, no noise, free from dust.



fly Wheel Goes Here



6 H.-P. Tonneau completed. Rear Tonneau detachable.

No. 1A Outfit, Our Standard and Latest Type Machine.

DYKE'S FLOAT FEED

CARBURETTER.

No experiment, but simply our No. 1 Machine improved. Our regular No. 1 Machines have given satisfaction, as the numerous testimonials from our customers will show. The 6 h.-p. Tonneau is an improvement over the regular No. 1.

Weight approximately 1200 lbs. Two speeds, forward and reverse. Variation of speeds obtained by means of carburetter and shifting igniter. Long wheel

base; any size tires.

Exhaust entirely muffled and odorless. Dyke's Flexible Reachless Running
Gear used. Vertical engine placed in front. Transmission device direct connected to engine shaft. Positively the simplest machine ever constructed.

POWER—Gasoline. ENGINE—Single cylinder, 4 cycle, developing 6 h.-p. Cylinder and head all in one casting. IGNITION—Jump spark, variable igniter. COOLING—Water circulated by pump through radiating tubes, TRANSMISSION—Sun and planet type, direct connected to engine shaft through mitre gears to countershaft, countershaft connected to sprocket on rear axle by means of 1/4x1/2 roller chain. BEARINGS—Roller bearings on rear axle or ball or roller on front wheels. RUNNING GEAR—Dyke's Flexible Reachless Gear, with improved spring arrangement and radius rod for keeping the chain at proper tension. REAR AXLE—Solid from one end to the other, spur gear differential. GASOLINE—Carried in cylindrical tank hung under rear of vehicle, with 4 lbs, air presure to lift gasoline to carburetter. CAPACITY OF GASOLINE—100 miles or more. WHEEL STEERING.

DYKE'S 6 H.-P. TONNEAU OUTFIT. OR No. 1A OUTFIT.

DYKE'S No. 1 FLEXIBLE RUNNING GEAR, complete (less tires) \$142 00
DYKE'S 6 H.-P. No. 1A ENGINE, complete with all accessories,
including Caburetter, Coil Bat, etc. 225 00
DYKE'S No. 1A TRANSMISSION DEVICE, complete with Collars,
Bearings, Bevel-Gear, and Counter-shaft, 1A type enclosed
and running in oil 35 00
Radiating Outfit 15 00
Working Drawings of Body 5 00
Pump for circulating water. 6 50

Cost on tires given on another page. We furnish any size wheel, wire or wood, desired. For prices see Running Gear List. The standard used is so inch wheels for 3-inch pneumatic tire. Wheels for 4-inch tires extra.

Please bear in mind that you could not buy a machine of this type for a cent less than \$1200.

We can supply our Running Gears fitted with Midgely Tubular Wheels or American Tubular Wheels, also with Band Brakes attached to rear axle, at extra cost.

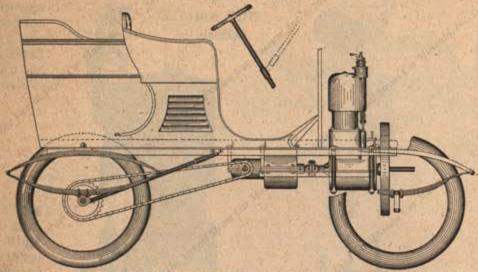
The ENGINE has features which no other Engine has. The TRANSMISSION has features which no other Transmission has. The Running Gear has features which no other Gear has.

We firmly believe that our Transmission and Engines are the Best Engines in America, France, Germany, or any other country.

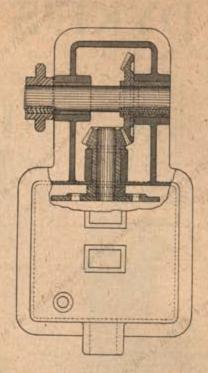
THE SUPERIOR FEATURES OF

SHOWN BY ILLUSTRATIONS.

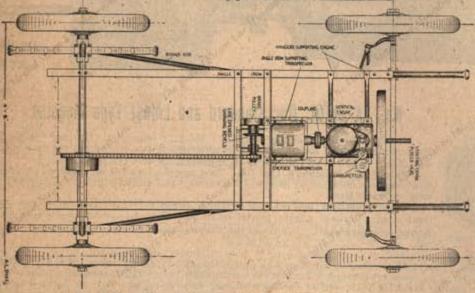
Ask yourself if there is any one Machine with as many Original and Prominent Features.

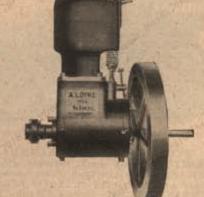


Side View Dyke's 6-H.-P. TONNEAU, showing arrangement of Transmission and Hanging of Engine, Etc.

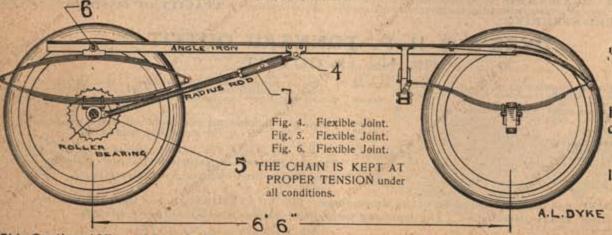


Transmission used on Dyke's 6-H.-P. TONNEAU. Change Gears and Bevel Gears encased, running in oil.





Top View Dyke's 6-H.-P. TONNEAU.



VERTICAL TYPE Engine used on Dyke's 6-H.-P. TONNEAU. Cylinder and Head all in one casting. Dyke Jump Spark System of Ignition Dyke Float Feed Carburetter used.

Side Sectional View of Dyke's Flexible Reachless Running Gear, as used on 6-H.-P. Tonneau Engine; it is hung from angle iron.

WE ALSO HAVE A NO. 2 A OUTFIT, WITH DOUBLE CYLINDER 9-H.-P. ENGINE.

DYKE'S No. 3 OUTFIT.



No. 3 Outfit makes up a powerful machine, suitable for heavy work. It is not only suited for pleasure carriages

but for truck work also. A piano wagon is being successfully operated by one of these engines.

Our object is to supply you with the Engine complete, Running Gear complete and Transmission device. You can then put the Engine on the Gear and put any style body on same you desire.

DYKE'S 10-H.-P. ENGINE.

Same General Style as No. 1 but double cylinder.

Weig 28 in.; 40 in.; Speed, minute. These ful, eas any on or No.

Weight, about 375 lbs.; Width, 28 in.; Fly Wheel, 2x22; Height, 40 in.; Cylinders, 5x6 in. each; Speed, 200 to 800 revolutions per minute.

These Engines are very powerful, easy to start, and superior to any on the market. The 10-H.-P. or No. 3 Engine is propelling a 3,000 lb. wagon every

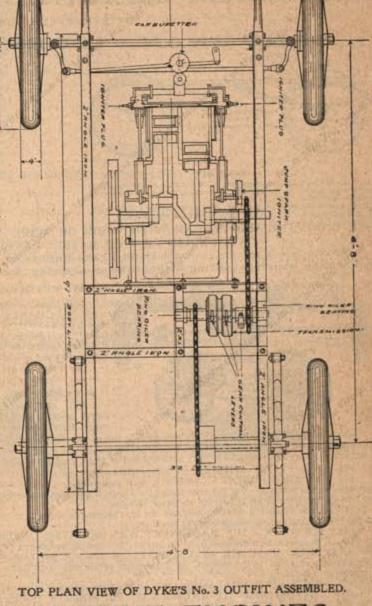
Price, Engine complete, with all accessories, Jump Spark Ignition,

variable speed \$350

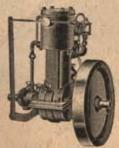
DYKE'S No. 3 OUTFIT.

1 No. 3 Engine, complete with all accessories, including Oil Cups, Carburetter, Coils, Tanks, Plugs and Batteries	List. \$350 00	
1 No. 2 Running Gear	160 00	
1 No. 3 Transmission Device, with Couplings and Onter Bearings, etc.	125 00	
10 Feet 11/x 1/8 Roller Chain, at \$1,85	18 50	
1 Double Radiating Outfit	55 00	
1 Circulating Pump	6 50	1
	120112/05230	

The above list includes the principal parts of the outfit. For tires you can select what you desire on another page. See Running Gears on page 10.



DYKE'S GASOLINE MARINE ENGINES.



Are offered to the public with every confidence that they are neared than any other yet on the market. They are the results of years of menting, and embrace novel and important improvements.

EASY TO START. EASY TO CONTROL.

All engines are fitted with reversible propeller wheel and muffler engines are thoroughly tested before leaving the works. Our engines are fitted with ball bearing thrusts.

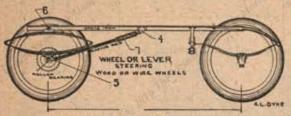
PRICES.

	STROKE	BORE	WEIGHT.	FLOOR SPACE		LIST
2-horse-power	. 334	336	120 lbs.	6 in. x 11 in.		\$160 00
4-horse-power			280 lbs.	9 in. x 14 in.		325 00
6-horse-power				10% in. x 16 in.	*******	450 00
8-horse-power, double cylinders .						650 00
12-horse-power, double cylinders .		6	750 lbs.	16 in. x 21 in.	******	775 00
20-horse-power, triple cylinders	. 616	6				

THE ORIGINAL DYKE'S FLEXIBLE REACHLESS RUNNING GEAR

(PATENT APPLIED FOR AND GRANTED.)

BAND BRAKE WHEELS ON REAR HUBS.

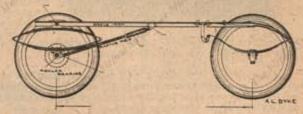


STYLE A.

This style of spring support, with forging running across from one side of angle fron to the other, is the style we generally supply.

Fig. 4-Flexible Connection. Fig. 5-Flexible Connection.

Fig. 6-Flexible Connection. Fig. 7-TORNBUCKLE.

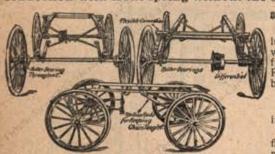


STYLE B.

The above illustration shows Dyke's Lunning Gear with side spring support. This does away with the forging running across the gear. This type of spring support is generally used for cars where the engine is piaced in front.

WE MAKE THE ABOVE GEAR WITH WOOD OR WIRE WHEELS AND ANY SIZE TIRES FITTED EITHER WITH SOLID OR PNEUMATIC. LEVER, SIDE OR WHEEL STEERING.

We now supply this Gear with Band Brake Pulleys on the Rear Hubs at extra cost. We also make connection with front spring without the cross spring, leaving no obstruction across the gear, when desired.



We will fit double acting Band Brake on these gears for \$20 extra-

This Gear, as the name implies, is FLEXIBLE and REACHLESS. There is absolutely NO CHANCE OF BINDING OR STRAINING any part of this Gear. Those who have had trouble with the tubular and other style of Running Gear will appreciate fully the advantage this Gear has over other Gears. To those who are not familiar with Running Gears we will give a few reasons why our Gear is more suitable for Automobile work than any other Gear made:

1st. THE REAR AXLE IS SOLID from one end to the other.

2nd. THE COMPENSATING DEVICE is compact and the steel spur gears run in an enclosed case of oil.

3rd. ALL OF OUR WHEELS ARE MADE SPECIAL-the rear hubs having a flange projection. Our wire wheels are more substantial than others, because they are made with heavier hubs and to our own design.

4th. THE REAR SPRINGS are mounted on top of the roller bearing case. The front springs, which are also special and different from others, is clipped to the front axle, and supported on one end by a bar extending across an angle iron frame. The front of the springs are fastened to a forging, which in turn is fastened to the angle iron frame.

5th. THE FRONT WHEELS are independent of the rear.
6th. AN ANGLE IRON FRAME (1% inch angle iron or 2-inch), which is supposed to receive the Engine, Transmission and Body, is mounted on the springs. On the rear springs a 1%-inch bar goes across from one spring to the other. This bar works on bearings mounted on the springs; the angle iron rests on top of this bar

THE RADIUS ROD goes from the rear bearing to the side of the angle iron, both being free to work with the motion of the car-

riage. A turnbuckle adjusts tension of chain.

8th. SUPPOSING THE MACHINERY WAS MOUNTED ON THE ANGLE IRON FRAME, and a chain from the Transmission went back to sprocket on differential at an angle. In crossing an obstruction the frame would GO DOWN, and on other gears the CHAIN WOULD BECOME SLACK AT THE BOTTOM AND JUMP THE SPROCKET. In our gear the radius rod forces the rear axle back exactly in proportion to the amount of depression of springs, and there being a flexible connection the chain cannot become slack, nor can

14 in.

1% In.

PRICE ON DYKE'S FLEXIBLE REACHLESS RUNNING GEARS.

here be any binding.

9th. WE GIVE MORE Running Gear for the same amount of money than others.

10th. WITH THESE ADVANTAGES OF FLEXIBILITY, the machine will require less power to propel and will OUTLAST TWO OF ANY OTHER MAKE, which goes to prove that "the best is the cheapest" in the long run.

In comparing prices, please note that we furnish Springs, Angle Iron mounted on Special Springs and Special Forgings, Radius Rod and other parts not ared in on other Gears. Read the advantage of our Gears.

The prices do not include tires or rims on wood wheels. It includes rims, however, on wire wheels. WE USE ROLLER

Forces do not include tires or rims on wood wheels. It includes rims, however, on wire wheels. WE USE ROLLER OUR No. 0, No. 1 AND No. 2 GEARS, whether wire or wood wheels or ball or roller are used in front.

We can put on any size sprocket desired, but if not standard, it may take a little longer time for delivery List Price with with Ball Bearings in Front Wheels Wheels Extra. List Price with Ball Size of Size of Approx1-Rearings on Rear Axle. Size of Hollow Style of Wheels. Size f Sprocket on Hear Axle. mate Wheel Base. Track. Weight of Gear. Axle Axio Shaft oed or wire. With Wire Wheels, 1981bs. 28 to 34 in. For Solid or Pneumatic Tires. 30-tooth, 1x) Block. 1 5-16 in 4 ft. to 4 ft. 8 Roller. 14½ IB \$120.00 Inches Inches. Wood or Wire, 28 to 34 in. For Solid or Pneumatic Tires. 24-tooth, 14x42 Roller. 4 ft. 6 in. or 68 to 80 Inches. 1% in. 142 in. Roller. 2 fm. \$142.00 \$10.00 Net 330 lbs.

Extra for Band Brakes fitted to rear axles, \$20 00.

24-tooth

14x Roller.

Wire or Wood Wheels for Solid

or Pneumatic Tires.

No.2.

Extra for Wheel Steering Device, \$18 00. Extra for Lever Steering Device, \$6 00.

4 ft. 6 in., 4 ft. 8 in. or 5 ft

Roller.

2% in.

400 lbs.

Extra for Side Steering Device, \$12 00

\$160.00 \$16.00 Net

(Made in 3 Standard Sizes.)

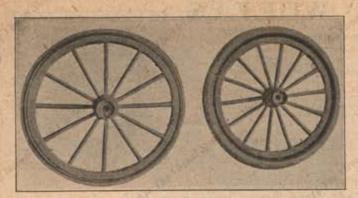
No. 0 and No. 1.—The price is based on using 2½ in. rims, if wire wheels are used. If 3 in. rims are used, add \$3.50. If 4 in., add \$4.50. On the No. 2 Gear we supply 3 in. rims on wire wheels and \$3.50 extra for 4 in. rims.

We do not supply rims for wood wheels, only at extra cost. See cost of rims and add \$2,00 for putting on. The sprocket can be placed at any point desired on rear axle. Brown-Lipe Differentials used.

as The above gears supplied with Concord Wood Wheels, see page 11-If Dyke's Wood Wheels are desired add \$10.00.

72 to 52

Inches.



ARTILLERY HUB

Automobile Wood Wheels.

FRONT WITH BALL-BEARINGS AND REAR-KEYED, WITH SOLID RUBBER TIRES.

We call special attention to the fact that our facilities in turning out high grade wheels equipped with tires, are unsurpassed. We carry as distributors, a large stock of high grade rubber, and apply it to our own wheels in our own shops. Every foot of rubber which we sell is of guaranteed quality, and in supplying it as direct factory agents, we can guarantee the highest excellence with all intermediate profits excluded.

15/16 in. spoke	, 64 tn.	hub, %	in, channel	rim and	rubber put	t on	842 50
1	634	110000	Service March	P. W. C. L. Co.	- 27 MANUEL - 27	**	46 50
186 11	GAn	44. 1	69 (3)	5 to 1	48)	**	50 00.
1 3/16 11	616	** 14	30	48	16	**	54 50
14 "	-	09. 116		49	14	4.6	38 50
186 11	-8	** 134	The state of the s	68	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	**	64 50
186 10	9.1	** 114	.44.	AKO INC.	46	ex Such	69 50

Above prices include all wheels from 28 to 26 inches, larger sizes special.

Balls in Front and Rear Boxing included.

PRICE ON CONCORD HUB WOOD WHEELS WITHOUT TIRES.

	Plain.	Diameter	Ball Bearings in Front, Keyed Box in Rear and Caps.	Front-Keyed Box	If one rear wheel is bored and fitted to take hollow- shatt, add extra.
No. 0 Size, per set (as used on No. 0 Gear)	\$15 00	22 to 36 in.	\$18 00	\$	\$1 00 (1½ in.
No. 1 Size, per set (as used on No. 1 Gear)	16 50	22 to 36 in-	19 50	32 00	3 50 (2 in.)
No. 2 Size, per set (as used on No. 2 Gear)	19 00	22 to 36 in.	23 00	40 00	3 50 (2¾ in.)

The above prices do not include Knuckles. The Standard Sizes generally used are 28, 30 and 32 inch.

THE CONCORD WHEEL

Described below is the Wheel which we supply with Dyke's Flexible Reachless Running Gear. It is a good Wheel, but if you wish one which is still better see Dyke's Auto Wood Wheels.



CONCORD.

The Back Flange and Axle-box.
(Cast in one piece.)

No. 0 size is for Machine not over 700 lbs.

CONCORD.

The Front Flange and Bolts.

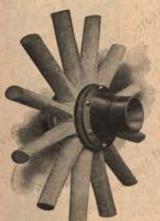


The Completed Hub.

A Bolt between every other Spoke.

No. 1 size is for Machine not over 1400 lbs.

No. 2 size is for Machine not over 2800 lbs.



CONCORD, after spokes are driven.

DYKE FRONT HUBS.



CONCORD WHEEL.
With Bands Shrunk
on by a West Hydraulie Hub Bander.

DYKE'S AUTO WOOD WHEELS

Are special made and are superior to any on the market. Front wheels with Timken Roller Bearings. These wheels have fine metal hubs and will outlast several Sarver or other make wheels. We make these wheels from 22 to 36 inches diameter to take any size solid or pneumatic tires.

HUBS.

Note the superiority of my wheels. They will outlast three sets of any other style. They are the only strictly Automobile Wheels made. The Front Hubs are of brass and steel. Spokes are bolted in and roller bearings fitted. The Rear Hubs are also of brass and steel with receptacle for spokes milled. Each spoke is firmly bolted. The Rear Hub also has a flenge projection for bolting to collar. A glance at the illustration will explain.



DYKE FRONT WHEEL

THE DYKE AUTO WHEEL

Is made throughout of Brass and Steel and fitted with Ball or Timken Roller Bearings. These wheels cost us more than the CONCORD and if purchasers of Running Gears wish something which is the best that can be made, we recommend this wheel. The CONCORD is a good wheel and is the wheel which we supply with our Running Gears at prices listed on Page 10.



DYKE REAR HUBS.

If you desire the DYKE AUTO WOOD WHEEL, add \$10 to list of prices of wheels above and \$10 to list on Running Gears, Page 10.

We do not supply Steel Rims with wheels.



DYKE REAR WHEEL, Showing Frange with Rim attached.

AUTOMOBILE WIRE WHEELS.

Our Standard Type is made up in three weights, as follows:

No. 1.—Consisting of four wheels—Two front wheels with ball bearings, cones to take %-in. spindle, 40 No. 9
spokes to the wheel, set tangent, each spoke guaranteed to stand a tensile test exceeding 2,000 pounds.
Rims 28 or 30 in. taking 24s or 3-in. tires, and with flared edges to prevent chafing. Hubs and spokes
finished in heavy nickel, rims enameled. The two rear wheels of same general construction, but
reamed 1-in and key seated for axle. Per set.

\$35 00

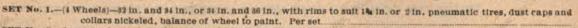
Consisting of four wheels—Two front wheels with ball bearings, cones to take 1-in. spindle, 40 No. 9 spokes to the wheel, set tangent, each spoke guaranteed to stand a tensile test exceeding 2,000 pounds, kims in any diameter, taking 2½ or 5-in tires, and with flared edges to prevent chafing. Hubs and spokes finished in heavy nickel, rims enameled. The two rear wheels of same general construction, but reamed to 1½-in, and key seated for axie. Per set.

S40 60



For Prices of Rear Axles, write us, giving sizes.

Suspension Steel Ball Bearing Carriage Wheels.



SET No. 2.—Same as above, but with hubs machined for 54 in, long distance or other axles. Per set SET No. 4.—(4 Wheels)—32 in, and 34 in., or 34 in, and 25 in., with rims for 2% or 2% in, pneumatic tires, nickeled dust caps and collars, balance to paint. Per set...

SET No. 6.-(4 Wheels)-Same as Set. No. 4, only built for heavy surreys, with rims for 3-in. pneumatic tires. Per set.....

NICKELING Hubs, Spokes and Nipples, \$1.60 per set, net, additional. Write us for prices on special wheels, giving description.

SPECIAL PRICES QUOTED FITTED WITH PNEUMATIC TIRES.

Sulky Wheels and Attachments. BALL BEARING.

Wood itims, Hubs and 12/14 double swaged spokes, nickel Material and workmanship of the best quality in every respect, 28-in. diameter.

PRICE, Wheels only. Per pair
Attachments. Per set.

Note. For price of either Wire or Wood Wheels ith Cushlon Tires, and Crescent or Square Base

WRITE FOR PRICES.



STEEL WHEELS WITH HUBS COM-PLETE. STEEL CHANNEL RIMS AND SOLID RUBBER TIRES

28 or 30 inch wheels with forty 10x12 nickeled spokes and & inch solid Kokomo Tires. 835 00 28 or 30 inch wheels with 9x11 nickeled spokes and % inch solld Kokomo Tires 40 00 28 or 30 inch wheels with 8x10 nickeled spokes and 1 inch solld Kokomo Tires . 45 00 25 or 80 inch wheels with 6x8 nickeled spokes and 14 inch solid Kokomo Tires ... 52 00 23 or 30 inch wheels with 6x8 nickeled spokes and 14 inch solid Kokomo Tires ..



\$18 00

16 00

22 00

26 00

If you want Cushion Tires in sizes 1% and 1% inch, we can make the rims special and substitute for either of the Tires mentioned above. Special prices on application.

Midgely Tubular Steel Wheels.

FOR SOLID OR PNEUMATIC TIRES.

Price, per set of any size 28 to 36 in., for either 1¼ in. solid or 2½ in. pneumatic tires, including cups, cones, caps and balls. \$60 00

> The wheels are supplied with a filler coat, rubbed down and ready for enameling, but not enameled. Extra for enameling 3 coats and striping, \$5 per set net.

For size rims to take 11/2 inch solid or 3 inch pneumatic...

We will supply these Whee's with any of our gear jobs, and quote difference of price on application, or we will supply them with American Roller Bearings, instead of ball bearing, as described above, at an extra figure



No. 00 Barrett Automobile Jack.

The Barrett Automobile Jack is designed, constructed and proportioned especially for automobile purposes. It is built on the lines of the larger size "Barrett Jacks," and has the same working principle. It has a lifting capacity of One Ton, and in its construction nothing but the best grade of materials and highest quality of workmanship are employed. Its height, length of raise and curved top are designed to meet automobile requirements, and it is light in weight and easily carried and operated. The foot-lift enables this Jack to grapple low set loads with the greatest facility. The operation is simple and the load is raised on both upward and downward stroke of the lever. The load is lowered in the same manner by simply turning the eccentric (or thumbserew) at the side. This is the only Jack of its kind with a lowering appliance, and it will operate at any angle. It is quicker, safer, more positive and durable and hence more efficient than any Jack on the market. The Barrett Automobile Jack is indispensable and should form part of the equipment of every Automobile and Automobile barn. The dimensions are as follows: The dimensions are as follows:

Capacity in Tons.	Height, Bar Down, Inches.	Raise of Bar, Inches.	Height, Bar ttaised, Inches.	Size of Bar. Inches.	Weight, Pounds.	Code Word.	List Price.	Discount
1	12	6	18	MX18-16	84	Auto	88 00	100
OFF	IER STY	LE JACI	CS ARE	QUOTED	ELSEWI	TERE		

Midgley Wheel, Showing Brake Pulley Attached to Rear Wheel Hub.





AXLE END AND KNUCKLE.



Sterling Knuckle for Nos. 1 and 2 Gears. Plain and in the rough, drop forged for axies 1 in. to % in. Price, each, \$1.50.

Axle Ends for Nos. 1 and 2 Gears. Plain and in the rough, drop forged for above knuckles. Price, each, \$1.50 net.

Machined, price, each, \$3.00 net.

Nos. 1S and 2S Style, Knuckles, Axle Ends and Hubs.

All Futed as Shown.









For Straight, Round Tubular Axle and Wire Wheels.

Price, per pair, ball bearing	\$18	00
Price, per pair, roller bearing	40	00
Nickeling hubs and knuckles		50



For Straight, Round Tubular Axle and Wood Wheels. Price, per pair, ball bearing..... \$17 00 Price, per pair, roller 38 00 Nickeling hubs and 2 50 knuckles...

EXTRA HEAVY FORCINGS.

For Rigs 2000 lbs. or Over.



Illa 110 136 144 85 00 85 00 86 75 86 75 86 75

Above prices are net.



Same price as Style D.

No extra charge for Spring Support.

Sizes. 1% and 1% 15 and 1% Length of Post 4年 2 2 3 1 0 年 Diameter of Post.... Collar Length of Arm Diameter of Arm This Knuckie Style D or E Axle Ends.

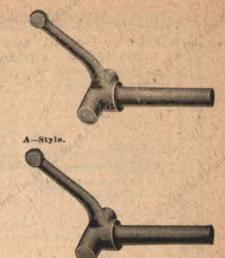
STEERING KNUCKLE.

PRICES STEERING KNUCKLE.

15a 87 35 14 1% 1% 14 15 S6 00 87 35 Above prices are net.







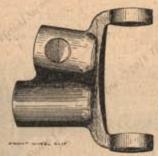
B-Style.

- Designed for 1% or 14 in. tubing, Designed for tubular or square axle.

O. For heavy solid square axle.

Price.	for.	vehicles	to. 600 lbs	Eac)	, 81	50
84.	**	**	1,000 **	**	1	65
14	49.5	44	1,000 **	The state of the s	1	75
44	Mac	chining o	nly	Each Plece	. 3	00

LICHT WEICHT YOKE AND KNUCKLE.





Yoke for Loco Pattern, tubular gear. Will carry 1,(0) lbs.

rough 81 50 machined 3 00 Price, rough.....

81 50 Price, rough " machined.....

SULKY HUBS.



Price, per pair 81 00

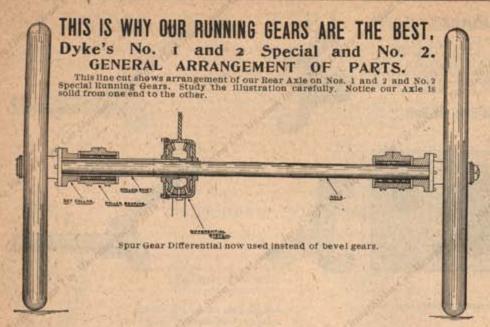
These Hubs are accurately made from high grade stock, and have attained a first-class repu-

HUBS FOR AUTOMOBILE, CARRIAGE AND SULKY.

Price, four hubs, shells machined and including caps, cups, cones ... 10 00 and balls, per set..... We have the same general style Hub, suitable for Carriages or light weight Automobiles. Price as follows: Machined, including caps, cups, cones and balls, per set 9 00



Wire Wheel Hubs in the Rough or Machined.



PRICE ON REAR AXLES.

With spur differential, boxes, spring blocks and reach lugs in combination, or with boxes and spring blocks without reach lugs Price, 14 in. Axle, Model 6 Differential, & in. Balls Price, 15/16 in. Axle, Model 1 Differential, 7/16 in. Balls 65 00 Price, 14 in. Axle, Model | Differential, 68.00 Price, 15/16 in. Axle, Model 1 Differen-tial, Roller Bearings 100-90 Price, 1t2 in. Axle, Model 1 Differential, Roller Bearings

Price, 1% in. Axle, Model 2 Differential, Roller Bearings 180 00 Price, 2 in. Axle, Model 2 Differential, Roller Bearings 160 00 These Axles are made of the finest quality solid steel, spindles are key-seated for either wood or wire wheels.

Size Axles on Different Type Gears.

No. 0 Running Gear has 1 5/16 Inch Axle (Rear). No. 1 Running Gear has 1 & Inch Axle. " No. 2 Running Gear has 1 % inch Axle. "

Size Hollow Shaft.

No. 0 uses on one side hollow shaft 14 in. Diam. No. 1 uses on one side hollow shaft 2 in. Diam. No. 2 uses on one side hollow shaft 24 in. Diam.

Channel Rims for Solid Rubber Tires.



HEAVY STEERING DEVICE FOR SOLID AXLES.

Drop forged yoke ends and knuckles, with spindles machined for wood or wire wheels and welded to any track. Price, 1% inch, Round or Square Price, 14 inch, Round or Square. Price, 14 inch, Round or Square. 22 00 24 00 Above Axles are fitted with either one or two spring blocks, as ordered.
If reach connections are wanted, add \$4.00 list.



MEDIUM STEERING DEVICE FOR TUBULAR AXLES.

Price, per pair, machined, as shown...\$19 00 Price, per pair, with 12-gauge tubing, brazed and filed ...

We will supply this finished device any tread wanted at same price.

Price, per pair, for frame connections for front axie to connect reach rods, brazed on axie and filed, any distance between centers.

Price, per pair, not brazed on and fittings in the rough

2 00

Bearings and Cases are Sold Separately.

m in

14 "

110 "

Our Roller

28 to 36 in.

.. **

60 44

** **

See List Below.



This Set for 142-inch Axle.

DYKE'S

Roller Bearings and Cases Nos. 1 and 2 Gears.



This Set for 1% inch Axle.

Bearings and Cases.

The Roller Bearings are placed inside of the Steel Cases. The Bearings roll on the Axle and on the Hollow Shaft. For a 12-inch Axle the Rollers are on one side, inside diameter, 14-inch, and on the Hollow Shaft side they are 2 inches. For 1% Axle on one side is 1% inches, the other 2% inches inside diameter. The cases, however, are the same outside dimensions. The Cases are of steel and have lugs cast to receive the springs, also, receptacle for reaches, making a flexible connection. Dust Caps are placed on each side to retain rollers and keep out the dust. Ells are also screwed in for oiling.

Price on Bearings and Cases

No.	1.	Pair Cases and Rollers, complete for 14 inch Axle and Hollow Shaft.	Pernate	
So.	9	Pair Cases and Pollers complete for the last and and the last	rer pair.	\$10 0
-	-	Pair Cases and Rollers, complete for 1% inch Axle and Hollow Shaft.	Per Pair	16 50

These Bearings and Cases will be sold separately as follows, inside dimensions given:

No. 1—1½ inches inside diameter, with Case complete. Each,... No. 2—1½ inches inside diameter, with Case complete. Each,... \$9.25 No. 1-2 inches inside diameter, with Case complete. Each,
8.25 No. 2-24 inches inside diameter, with Case complete. Each, I pr Plain Bronze Bearings for 14, 14 or 15/16 Axle with Spring Blocks to take 14 inch wide Spring. Per pair, \$12 50. Castings of these plain Bearings ...

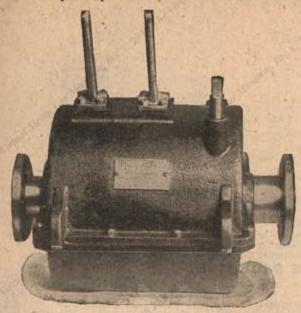
\$5 00

5 00

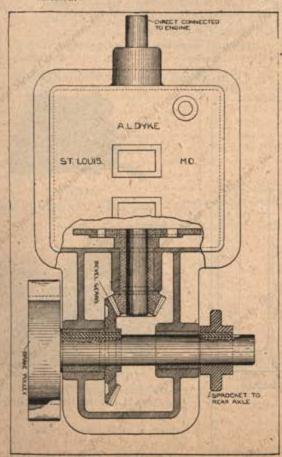
6 50

8 00

This is the Upton Special Encased Transmission Gear.

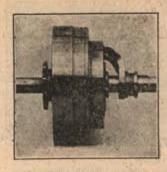


We now supply the above encased trans-mission,



Transmission used on Dyke's 6-H. P. Tonneau and No. 7A Outfit. Change Gears and Bevel Gears encased, running in oil

THE CHAMPION SPEED CHANGING CLUTCH.



(Patent Applied For ..)

FOR AUTOMOBILES.

Self Contained and Attached Direct to Engine Shaft.

In offering this clutch to manufacturers of automobiles we beg to state that we are not offering an experiment but an article that after hard usage has proved itself perfect and beyond criticlsm in any respect.

We believe that this clutch will greatly add to the sale of a gasoline wagon, as it will do away with the noise which is caused by gears running idle when the wagon is at high speed. It is also very compact, thus leaving more room in the body of the wagon.

DESCRIPTION.

Contains Two Speeds Forward and One Reverse.

The slow speed is produced by tightening a brake band on the outer rim, allowing the wagon to move at any desired speed up to six miles per hour.

The reverse is produced by tightening a second brake band on the outer rim.

The high speed is produced by throwing in the finger which binds the entire clutch to the engine shaft, causing it to rotate with it.

Can be made with any size sprocket, from eight-tooth up, and bored to fit any size shafr.

The gears are enclosed in a dust-proof case, measuring 94 inches in diameter by 74 inches on the shaft, including finger and sprocket, and run in oil.

Has no gears running idle when the wagon is on high speed,

All gears are spur gears cut from the solid piece and are always in mesh.

Contains nothing to get out of order.

GUARANTEE.

These clutches are made of the best of material and are guaranteed against any defects in material or workmanship.

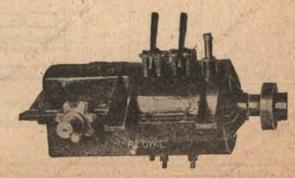
We will replace any part which shows a defect within one year from date of purchase providing the defective part is returned to us at our factory, charges prepaid.

Price.... 885.00.

DYKE'S No. 1A TRANSMISSION.

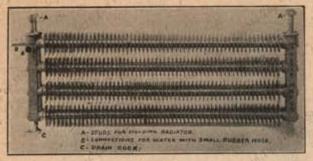
Made especially for vertical type engines where the engine is placed in front. The change gears all run in oil and are encased together with the bevel gears. The transmission is direct connected with the engine shaft. A brake pulley is supplied, also sprocket. No. 1A is suitable for a 4 to 6 h. p. Weight, 115 lbs.; length over all, 18 inches; width, 91/4 inches. No. 2A for engines 6 to 12 h. p.

No. 1A, Price, complete \$150 00 No. 2A,



View showing Style of No. 1A and No. 2A Transmission.

DYKE'S RADIATING OUTFITS AND PARTS.





DIMENSIONS-Length, 26 inches over all. Height, 7% inches.



Extreme Width, End View, 44 inches.

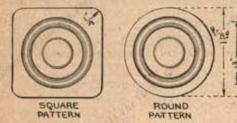
The above illustration shows our standard size Radiator made up complete. This Radiator consists of eight tubes with dimensions given above. We make these Radiators with either brass or copper discs. We recommend copper discs. The tubing is % inch inside and % inch outside copper tubing. The End Plates are made of brass. We provide these Radiators with Studs for hanging, as shown in illustration, and with Drip Cocks (not shown) in bottom to drain the water.

This Single Radiator is sufficient to cool a 5-H.-P. engine by using Dyke's Circulating Pump to circulate the water.

To cool a 10-H.-P. Engine simply connect two of the single Radiators together, making a 16 tube outfit.

PRICE OF COMPLETE RADIATOR.

SINGLE RADIATOR, complete, with Brass Headers, Copper Discs, and Copper Tubing, complete with Studs for hanging with Drain Cocks \$35 00 DOUBLE RADIATOR, consisting of two Single Radiators connected together, and both purchased at one time ... 55 00 If Brass Discs and Brass Tubing are used deduct \$2.00 for each Single Radiator. We can connect any number together desired. 55 00 If Brass Discs and Brass Tubing are used deduct \$2.00 for each Single Radiator. Price on application.



ALL DYKE

SECTION

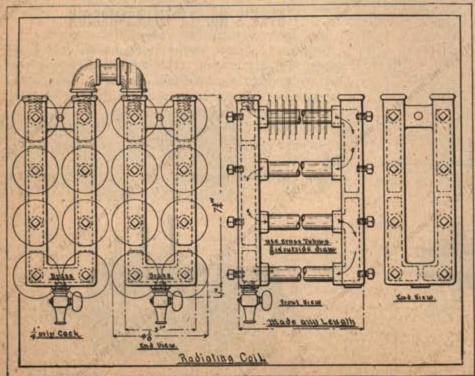
RADIATING DISCS.

Discs 2-inch diameter, 1/2-inch hole. 4 Discs placed on tubing take up 1 inch space.

PRICES ON DISCS. Etc., SEPARATELY.

Copper Discs per 1000 \$ Bronze Discs	8	00 00 00
Seamless Copper Tubing, % inch outside diam-		00
eter, cut to lengthper foot		18
Brazed Brass Tubing, % inchoutside diameter, eut to length	100	10
Brass Header Castings, two required for each section, \$2.50 each per section	5	00
Brass Elbows, for 1/2-inch Pipe each		18
Brass Short Nipples, for ¼-inch Pipe "Brass Plugs, for ½-inch Pipe "		20 05
Brass Drip Cocks, for 4-inch Pipe "		25
Machine Headings, complete, including the Castingsper pair	10	00

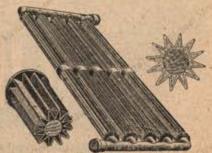
We can also supply these dises for \(\) in. Tubing; also only 1\(\) in. round or square at same price.



SHOWING TWO RADIATING COILS CONNECTED TOGETHER.



We also make other style Radiators.



DYKE STYLE C RADIATOR.

Star Shape, Copper Tubes, with Wood Core. All the water is in thin sheets in the points of the star-none in the center of the tubes. Five tubes, 24 inches long, are sufficient for four horse power engine. List Price, \$12.50

We recommend style A for best results.

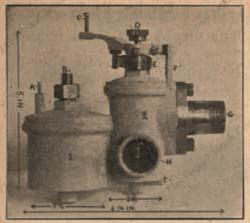


FIG. 1-HALF-TONE VIEW DYKE CARBURETTER retter made.

DYKE FLOAT FEED CARBURETTI

The First Float Feed Carburetter placed on the American Market.

The only satisfactory and complete Carburetter. Your engine equipped with this device can be throttled as effectively as a steam engine. No extra fittings. Complete with throttle lever. "C." Even has a spring tension for this lever.

Insist on having this device on your gasoline engine. It gives your engine more power.

You will get better results from this Carburetter than any Vaporizer or Carbu-

ADVANTAGES.

RELIABLE. POWERFUL. SIMPLE. Will not back fire after once being adjusted, it is controlled entirely with lever "C." Can be used with any kind or grade of gasoline. Suitable for any style of Gasoline Engine from 4 to 40 horse-power. Easily attached, no extra valves or fittings necessary. Give us the size of your inlet valve pipe and we will thread the connection "G" accordingly. It has a lever "C" for attaching to foot or lever pedal for giving various speeds. It has its own spring tension "E" for bringing lever back to slow speed when released. Also has an adjustment which allows engine to run as slow as desired when rig is standing ("Air Adj"). After once being regulated it is entirely automatic. No choking. No odor. No smoke. You can depend upon it under the severest conditions. Nothing to work loose. Will work satisfactorily in any climate.

THE ACTION OF THIS CARBURETTER IS AS FOLLOWS:

When the valve on gasoline tank is opened, the gasoline flows to B (Fig. 1), and passes through a gauze strainer and fills chamber No. 1 (Fig. 1) to a point approximately as indicated (Fig. 2). The buoyancy of the float presses the spindle it carries into the small

hole above it, preventing the further admission of gasoline to the carburetter. This is one of its most valuable features, rendering it very economical and safe.

When the eogine is started a vacuum is formed in the space surrounding the air valve, and the gasoline is drawn in and instantly atomized and mixed with the air which is drawn in at the same time.

The amount of gasoline vaporized is always exactly in proportion to the demand made upon it by the engine. There is absolutely no waste. The rate of flow of gaseline to secure a proper mixture is adjusted by the knuckled head screw D (Fig. 1), and when once properly adjusted is clamped by the small lock screw directly under it.

The screw named "air adj." (Fig. 2) is placed at such a point that, when

against the stop F (Fig. 1) the engine just continues its motion.

It can instantly be brought to full speed by pressing a foot button which is placed at the driver's foot. This button is connected with lever C (Fig. 1) by means of a rod or wire. When this lever C is opened it swings the air valve around in line with the passage marked "to the engine or G," allowing a full charge to enter.

When the foot button is released, the spring E (Fig. 1) closes or brings lever C back to stop F (Fig. 1) thereby closing the air valve, and the engine drops to its

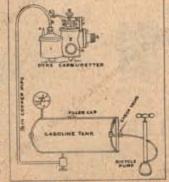
lowest speed. When starting, especially in cold weather, the flusher "A" should be pressed for a couple of seconds before turning the crank. This allows a small amount of gasoline to escape into the air chamber, and furnishes the first charge.

The operation is entirely automatic.

The Carburetter is made of brass or aluminoid, nicely finished and all adjusted ready for attaching. It will last indefinitely.

Plan for using Dyke's Carburetter when placed above the level of the Gasoline Tank.

Two pounds of air pumped into the gasoline tank will raise the gasoline to Carburetter, 1 foot. Four pounds will raise it 2 feet.



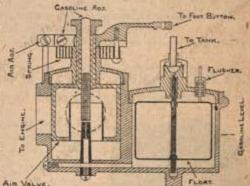
After once attaching this Carburetter and adjusting same, all that is necessary is to start your engine and operate lever "C" for various speeds. Full directions with each Carburetter. We make these Carburetters in two sizes and of Brass or Aluminoid.

No. 2-Made of brass, weight 51/2 pounds, suitable for engines from 4 to 12 horse-power, with any size pipe connection, "G," 1/2 to 11/4-inch pipe, thread any size_______ \$15 00

No. 3-Made of brass, weight 93/ pounds, suitable for engines from 12 to 40 horse-power, with any size pipe connection, "G," 1 to 2-inch pipe, thread any size.....

If you desire these Carburetters made of Aluminoid add \$2.50.

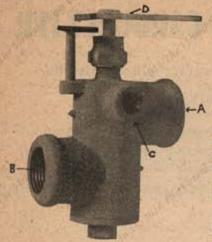
These Carburetters ordinarily require the gasoline tank to be just barely above the Carburetter. When you desire your gasoline tank below the level of Carburetter, follow diagram shown above.



DYKE'S FLOAT TYPE CARBURETOR.

25 00

G 2-Sectional View. Cut about 1/4 actual size.



DYKE'S MIXING VALVE.

For Stationary and Marine Engines or Auto Engines, where the speed is not constantly being changed.

Designed especially for engines which run at a uniform speed.

We particularly desire to call your attention to the Dyke Mixing Valve. For some time the Dyke Float

Feed Carburetter has been on the market. This Carburetter is a very fine piece of mechanism, and has advantages over all other forms of Mixers and Vaporizers. It is just a little too high priced, however, for some of our customers, and in order to satisfy the wants of all, we offer you the above Mixer. This device is made in several sizes, and works just a little better than any other Mixer on the market. We recommend our Float Feed Carburetter, however, if you wish to get the best satisfaction.

This Mixing Valve gives good satisfaction for Boat and Stationary Engines, where the speed is not constantly being varied.

PRICE-Size (No. 1) from 1 to 4 horse-power...... \$3 50 net Size (No. 3) from 8 to 20 horse-power...... 9 00 net

In ordering, please give the stroke and bore of your engine. Size No. 1 is used on No. 0 Engine, if for stationary purpose.

Description of Mixer.-C, gasoline connection; A, air connection (left open); B, connects with your inlet valve on engine; D. gasoline needle valve.

DYKE'S CIRCULATING PUMP.

IS THE BEST AND CHEAPEST PUMP ON THE MARKET.



This Pipe connection is SOLID and not divided into half.

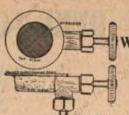
Dimensions-Diameter, 5 inches; Weight, 5 pounds; diameter shaft, 1/2 inch; total length of shaft from side, 3 inches: extreme width, not including shaft, 314 inches; pipe connections for 1/2-inch pipe.

This Pump is used for circulating the water around the cylinder of a

gasoline engine. Requires hardly any power to operate. No attention needed. Connected to engine shaft or to counter shaft by small sprocket and chain. Connected to tank by rubber hose.

PRICES.

Brass throughout, no iron used in its construction	\$6 75
Cast Iron shell, with brass dash-wheel and brass shaft	6 00
10-tooth Sprocket for engine shaft bored 1/2 to 11/2 inches.	50
10 tooth Sprockets to go on pump shaft for 1x1/4 chain, each	50
1x14 Chain, per foot	25



Dyke's Gasoline Needle Valve. With Ground Joint Union Strainer.

Designed to be soldered to bottom of gasoline tank.

BRASS.

Price, each

THE LOBEE PUMP



Increases and gives a positive circulation to the cooling water for all Gasoline Motors. Simple, Cheap, Durable, Efficient, easy to apply.

CAPACITY.

	Revolutions	44		minute.
100		154	4.	
200	#1	1	+4	44
200	14.	38	. 49	1166
004		8	. 86	44
008	44 9	tie.	41.4	2.44

Can safely be run at speed of 1500 revolutions.

LIST PRICES.

Bronze, each. Cast Iron, each. Prices do not include pulley.



WEEBER MUFFEER.

82.50

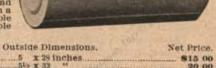
11	in.	Pipe		81	0	00.
21%	33	**		u	3	00
142	4.4	64	-	1	6	00
2	**	44	The state of the s	2	0	00

THE CHRISTMAN SILENT MUFFLER.

Patent Applied for.

When the right size is used it removes all of the noise of the exhaust, and is in fact a SILENT MUFFLER.

Has two air chambers, con nected by a new system of pipes, which allows the gases to expand gradually, and finally pass to the open air in a continuous stream. Suffable for either single or multiple cylinder engines.



Christman Silent Muffler

DATENT APPLIED FOR

F	or En	gine	of	Outsig	0	DI	mensions.	Net	Pri	ce.
48	to 4 1 to 8 to 12 to 20	0	Powe	512	×		The state of the s			50

Lukenheimer Generator Valves.

FOR GASOLINE ENGINES.

Pipe	Price
onnection:	each.
4 inch	\$2 60
B) 11	3 30
1 **	4.00
*10.44	4.60

Pipe connection. Price each, list. 11/2 Inch 244 :

ANGLE OR VERTICAL PATTERN.

Size of Generator Valve for any Cylinder up to 14 in. Diameter.

	Diam
Cyl	inder
2	inch
845	44
41/2	45
51/9	44
1967	44

Pipe connection by inch

Diam. Cylinder 8 inch 10 " 12 " connect inch 2 245 245



Vertical pattern.



The above proportions are based on a piston travel of not more than 500 feet per minute. For higher speeds than this, the generator valve should be the next size larger than shown above.

In ordering be sure to specify which pattern is required. Orders which do no not specify any particular pattern will be filled with angle generator valves, as that pattern is most generally used.

DYKE'S MUFFLERS.



Although we have never pushed the sale of our Mufflers Although we have never pushed the sale of our Mufflers we have been making teem for several years, and we now have what we believe to be the simplest and best Muffler on the market. We make these Mufflers for any size gas-oline engine. When desired we can attach a valve to Muffler, so that by opening this valve you can cut your Muffler and let it exhaust in the open air. This is an advantage sometimes in racing or where more power is needed. Our standard sizes are as follows:

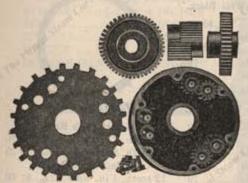
	For 2, 3	For 5 & 6 H. P.	For 7& 8 H. P. Double.	For 10 & 12 H. P Double
Size	No. u	No. 1	No. 2	No. #
Size Pipe Connection	a or 1 in.	14 In.	11/2 in.	2 tn.
Price	84.50	87.00	810.00	\$12.50

Larger sizes made to order.

Brown-Lipe Spur Equalizing

THE spur gear construction adopted by the Brown-Lipe Gear Co. avoids all of the faulty features of bevel compensating gears, viz.: side thrust, tendency to spread the axle, wear on thrust collars, no looseness to continually adjust, no loss of power. It produces the strongest and most durable device for the purpose, and the Brown-Lipe Equalizing Gear is one less part of an automobile to require attention.

This cut illustrates models 1, 2 and 6, the only difference being in size, capacity and price. They are all enclosed in a dustproof, oil tight case. They will carry a quart or more of oil, and lubricate themselves for a long time.



Illustrating Models 1, 2 and 6.

Model 1. List Price, \$25.

For automobiles of less than 2,500 lbs. and 5 to 10 horse power.

Sprockets 24 to 36 inch teeth Diameter of drum, 7 inches.

Width 2% inches; bubs project % inch each side. Band brake surface, 2% inches. Receives axles, % inch to 1% inch.

ar Standard sizes are: 24 teeth, 14x2 roller chain; 24 teeth, 14x4 roller.

Model 2. List Price, \$26.

For automobiles of less than 2500 lbs, and 5 to 10 horse power. Band brake surface, 24 inches.
Receives axles from 1 inch to 14 inch.
Width, 24 inches; hubs project 4 inch each side. Sprockets 24 to 86 Inch teeth. Diameter of Drum, 842 Inches

Model 6. List Price, \$18.

For light vehicles and tricycles of 2 to 4 horse power.

Sprockets is to 36 inch teeth. Diameter of drum, 4% inches.

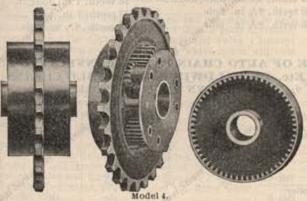
Band brake surface, 1% inch.
Receives axles, from % inch to 1 inch.
Width, 2% inches; hubs project s-18 inch ach side.

or Standard sizes, 80 tooth, 1x% block.

Model 3. List Price, \$25.

For automobiles of less than 2500 lbs, and 8 to 12 horse power.

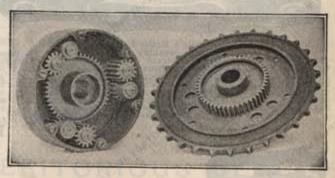
Dust proof case. Width, 24 inches; hubs project ½ inch each side. Sprockets, 21 teeth or more. Brake surface, 1% inch. Diameter of drum, 8 inches. Sprockets in center or on side as desired. Receives axie, & inch to 1½ inch



Model 4. List Price, \$35.



Showing Reason Pump attached to rear axle of a steam auto.



Illustrating Construction of Models 1, 7 and 6.



Consists of a pair of internal gears, 8 pitch teeth, 1 inch face, accurately cut, and six pinions. The pinions are carried on study riveted to check pieces which are fastened to bosses on the central web that holds the sprocket. The internal gears form the sides and brake surfaces, permitting two brakes of the internal gears directly to the axle, and not through the pinions. Diameter of drum, 8 inches; width, 4 inches; hubs projecting 48 inch each side. Beceives axies from 1½ inches to 7 inches. Sprockets according to specifications.

Standard size Model 4 is 24 teeth, 12x% roller.

Model 5. List Price, \$18.

For motor tricycles of 8 horse power or less.

Expriving gear, 100 spur teeth, 16 p., 4 inch face. Width, 15-18 inch; hubs project K inch each side. Designed to be built into case forming part of frame construction. Stock size subject to modification. Weight, 6½ lbs.

The new model pump has been given a most thorough and practical test upon a steam vehicle for the past six months.

The new model pump has been given a most thorough and practical test upon a steam vehicle for the past six months.

and are interchangable.

The new model pump has been given a most thorough and practical test upon a steam vehicle for the past six months, and it has proven to be thoroughly practical and reliable in every particular, and is guaranteed to give entire satisfaction.

The adoption of this pump means a positive saving of fuel, uniform steam pressure, convenience and comfort to the driver. Each pump is carefully tested before leaving the factory. It is not an expensive luxury but a necessity you cannot afford to be without.

See that your vehicle is equipped with the NEW MODEL REASON AUTOMATIC AIR PUMP. List price, complete, \$25.00.

PATENTED: August 20, 1900; Nov. 15, 1901. England - May 16, 1900. Canada - September 31, 1901. OTHER PATENTS PENDING.

NOTE. = 15-15x1;2 Block used on Oldsmobiles.

1x5-16 Block Chain used on old models of Locomobiles and Mobiles.

1x5-16 Block Chain together with 40 and 50 tooth sprockets, will interchange with old models where 1x5-16 block chains are used, making the old models the same size sprockets and chains as new models, thereby giving more strength and durability.

BALDWIN CHAINS.

DETACHABLE.



	Daldwin's Dlock Pattern.	
	Breaking	Price
Bize.	Strain	Per Foot
1 x5/16	2.500 Pounds	\$0.50
	2,5=0 Pounds	
	2,500 Pounds	
	4,500 Pounds	
11/2 X 19		
1% X1	9,000 Pounds	
	ACTION SOMETHING THE PARTY OF	DOMESTIC OF THE PARTY OF THE PA
	CONTRACTOR OF THE PARTY OF THE	



	Baldwin's Roller Pattern.	
	Breaking	Price *
Size.	Strain.	Per Foot
%x5/16	4,000 Pounds	\$1.00
15/16x48	4,500 Pounds	1 25
1X4s		1 25
1x4		1.85
14x42	5,500 Pounds	1 50
11/2 X 5/2		1 85
	nain can be furnished in riveted s	

AUTOMOBILE SPROCKETS.

PRICES ON SPROCKETS NET.

Block Pattern.

I Inch Pitch, A Inch Wide Block.	
8 teeth, 1 in, hole \$0 50	
10 teeth, 2% in. hole 55	
12 teeth, 2¼ in. ho!e 60	
15 teeth, 2¼ in. hole 70	
30 teeth, 84 in, hole 2 70	
36 teeth, 8% in. hole 30 0	A CONTRACTOR OF THE PARTY OF TH
1 Inch Pitch, # Inch Wide Block.	Roller Pattern.
7 teeth, % in. hole \$0 50	14 Inch Pitch Roller.
8 teeth, 1 in. hole 55	15 teeth, 2¼ in. hole\$0 70
10 teeth, 21/4 in. hole 60	40 teeth, 81 in. hole 3 25
12 teeth, 21 in. hole 65	18 Inch Pitch Roller.
15 teeth, 2% in. hole 70	12 teeth, 1 in. hole
30 teeth, 81 in. hole 2 80	32 teeth, 8% in. hole 3 50
36 teeth, 8% in. hole 3 00	1¼ Inch Pitch Roller.
	10 teeth, 1 in. hole
1 Inch Pitch, 1/2 Inch Wide Block.	12 teeth, 1 in. hole 1 70
8 teeth, 1 in. hole	30 teeth, Sh in. hole 6 00
10 teeth, 2¼ in. hole 75	1½ Inch Pitch Roller.
12 teeth, 2¼ in. hole \$0.80	10 teeth, 1 inhole \$1 95
30 teeth, 81 in. hole 3 60	12 teeth, 1 in. hole 2 60
36 teeth, 81 in. hole 4 00	30 teeth, 8% in. hole 7 75



PRICE OF AUTO CHAIN PARTS, CONNECTING LINKS, Etc., OF BALDWIN DETACHABLE CHAINS SHOWN ON THIS PAGE.

Size of Chain.	Blocks, Each,	Pins, Each.	Side Plates, Each.	Rollers, Each.	Connecting Links, Each,
Block.	100				
1x5-16	5c	āc	ac .		10c
1X38	to.	50	80 80 50 70 t00		10c
1x42	7c	6c	8c		15C
1 5-16x42	10c	āc:	5c		20c
11/2×16	15C	70	7e		25c
14x1	20c	10c	t0c		80c
Roller.	11.00				
\$4x5-16		6c	15c	10c	20c
1 5-16x4s		10c	15c	15e	25e
1x%		10c	15c	15C	26 C
1X14		10c	15c	15c	25 c
1½x½		15c	20c	20e	80c
112×48		20c	20c	25c	35c

SPECIAL AUTOMOBILE SPRINGS.

These Springs we have made to our special order. The regular spring obtainable on the market being unsuitable for the absolutely non-explosive. CAN'T BURN OUT.

CAN'T BURN OUT.

84x4 leaf x 14 in each, \$3 00 34x4 leaf x 14 in each, \$2 50 36x4 " 14 in " 2 25 % 1 1/2 in..... " 86×5 ·· 13 in " 8 00

SPECIAL AUTOMOBILE BALLS.



8/16	M	5/16	N/
4s inch \$0	:00	Winch	\$0 60
5/82 inch	50	9/32 inch	
8/16 inch	50)	t/is nch	
W date & state in the	W 45	Treton via	W 100





of steam from cold water in

sufe and reliable boiler.

QUICK STEAMER.

We carry in stock all sizes up to I in th. Special prices on

WE SELL ALONE, IF PREFERRED, THE & & CYLINDER AND HEAD

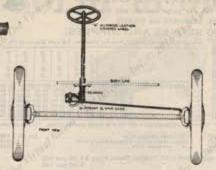
ONE CASTING

OF THIS ENGINE. Water Cooled around Head, Cylinder and Valves.

DIMENSIONS, ETC., OF CYLINDER.

STROKE	4	INCHES
BORE	4	INCHES
WEIGHT	28	POUNDS
HEIGHT	91	INCHES
EXTREME DIAMETER	71	INCHES









DYKE'S 3½-H.-P. No. O GASOLINE ENGINE.

As we have had such a demand for the cylinder alone of this engine, both in the rough and machined, we have decided to list the Cylinder alone. A number of customers have purchased the Cylinders and made Double, Triple and Quad-

ruple Engines.

This Cylinder is a distinctive type and one which is very difficult to cast. It is more expensive than a plain Cylinder, but the fact that the Cylinder and Head and Valve Chamber are all in one casting and all thoroughly water cooled will over

PRICE No. 0 31-H.-P. CYLINDER.

Price of Cylinder in the rough alone	810	00
Price of Cylinder in rough, with Inlet Valve, Piston, and Ring Casting	12	00
Price of Bronze Connecting Rod, 93/4 inches from center to center	100	00
Price of Cylinder complete, machined, with Piston,		oo
fitted Inlet and Exhaust Valves fitted, water and exhaust and igniter plug holes and relief cock		
holes drilled and tapped, less Connecting Rod	20	00

INVENTION AND IMPROVEMENT INDUCE PROGRESS.

Connecting Rod, extra, and machined and fitted with

CUT No. 1. FLEXIBLE TUBING

Wrist Pin



CUT No. 2. SHOWS CONSTRUCTION

FLEXIBLE METALLIC TUSING

5 00

A Tubing that is absolutely guaranteed Not to Lesk when used for High Pressures (100 to 2000 pounds, steam, Compressed Air, water, Oil, Ammonia, etc.

Especially adapted to Automobile, Railroad and Steamboat uses, Electric Wire and Cable Armoring Work, etc. SERVICE AND DURABILITY EFFECT ECONOMY.

FLEXIBLE METALLIC TUBING



CUT No. 3. SHOWS COUPLING.

Is made in all sizes from 5-is in ch up, in both Copper and Steel, re-ing metallic, it is unaffected by the ac-tion of Petro-leum, orother Olls, Salts, Spirits, etc.

No rubber or canvas being used, it is not affected by climatic variations. Will not Char, Kink or Crush. Practically Indestructible.

All connections are made of best quality Metal and attached to the outside of the tubing, thus preserving the full internal area of the Tube. All Sizes in Stock.

WOOD WHEEL,

With Brass Ribs, as used on Dyke's Wheel Steer-ing Device.

Price Wood Wheel \$2.00 Price Wood Wheel with Spider fitted 7 00

Diameter of Wheels, 12, 15 and 15 inches.

WITH WOOD WHEEL.

Undoubtedly the best device made. It can be attached to any style vehicle with very little trouble. We supply you with the complete outilt:

Wheel of Aluminoid or Wood.

Steering Rod of Steel, with joint to throw over out of the way.

Bearing or Support which holds the Rod.

Quadrant or Bronze with cut teeth.

Spur Gear on end of this Steering Rod works into teeth of Quadrant.

We also supply the Fork in Quadrant to take the rod which goes over to Steering Knuckle.

Price, complete, all assembled, rendy to attach. with wood wheel, nickel plated spider, 13 or 15 Inch diameter ... \$18.00

ADOPTION OF

MERITORIOUS DEVICES

TENDS TOWARD PERFECTION.

LIST PRICES, FLEXIBLE METALLIC TUBING IN COPPER AND STEEL. FOR ALL USES AND PURPOSES.

COPPER No. 2, UP TO 250 POUNDS PRESSURE (STEAM).

Internal Diam.	Price per Foot	Working libs Pressure	Prices of Coapling Prices of Con- nections
5-16 物 植 植 1 1 1 1 1 1 1 2 1 2 1 2 1 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	\$ 73 1 20 1 50 1 80 2 05 2 65 3 20 4 23 4 23 6 75 7 90 9 90 10 15 18 10 15 75 21 60	250 250 250 250 250 250 250 250 260 275 175 175 175 150 Suction Suction	\$ 90 \$ 1 00 1 00 1 15 1 20 1 50 1 50 1 50 1 50 2 80 2 25 2 75 2 70 8 25 8 30 8 95 5 90 4 80 7 20 5 25 8 85 Special Quotations on Larger Sizes

DUPLEX COPPER FOR 350 POUNDS PRESSURE

Size	Price per Foot	Size	Price per Foot
5-16	\$2 50	74	\$5 10
16	2 90	1	6 10
1246	8 80	14	7.30
5g	4 50	11/2	9 00

GALVANIZEDSTEEL No. 2

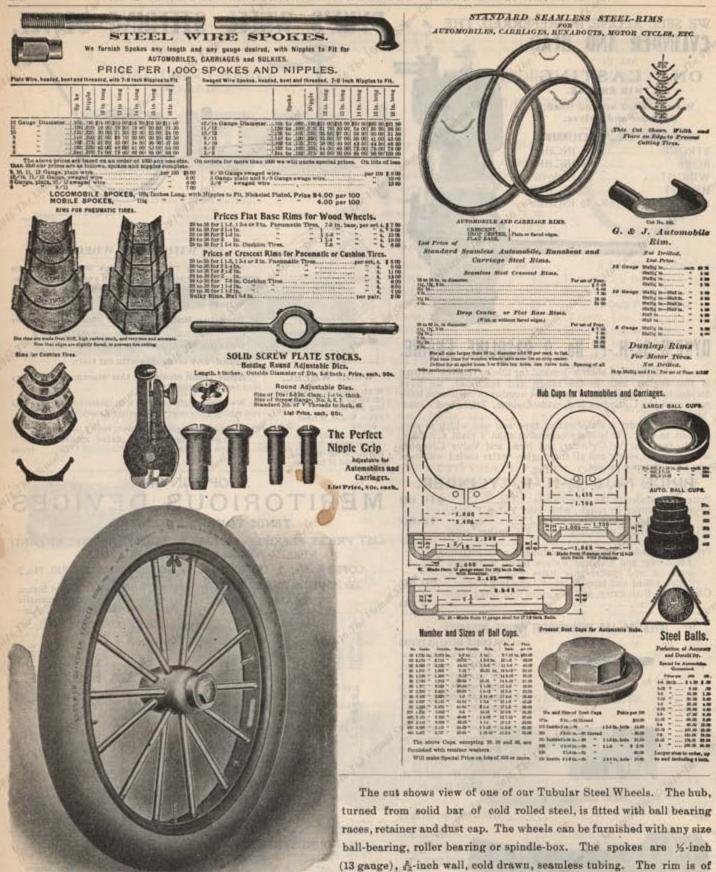
For All Purposes Except Steam Use. Hydraulic, Pneumatic Work, Oil, Petroleum, Ammonia, Salts, Spirits, etc.

Internal Diam.	Price per Foot	Diam. Circle	Prices of Couplines	Price of Con- nections
5-16 No. 10 No.	\$ 44 .45 .55 .78 .95 1.70 2.25 8.30 8.53 4.15 4.50 6.50 8.65	19 " 24 " 28 " 81 " 34 " 41 " 60 "	1.00 1.20 1.50 2.30 2.75 8.25 8.96 4.80 5.90 Spe Quots on la	\$1.00 1.55 1.85 1.50 1.85 2.25 2.70 8.80 6.90 7.20 8.85 Claittions rger

No. 1 STEEL. FOR GAS, SPEAKING TUBES, ETC.

in- ternal Diam.	Price per Foot	Push-on Coup- tings	Heragon Wing- Caps		
13 5-16 88 12 59	\$.15 .20 .25 .80	.15 .20 .25 .80	\$.30 .35 .40 .65		
2/4	40	40	.85		

All Sizes Flange Connections Special Quotations. THESE PRICES ARE NET



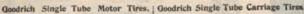
AMERICAN TUBULAR STEEL WHEELS.

Price, 28 or 30 inch x 2½ inch, ½-inch balls in front per set \$50 00
Price, 28 or 30 inch x 3 inch, ½-inch balls in front per set 55 00
Price, 28 or 30 inch x 4 inch, ½-inch balls in front per set 60 00
Larger size wheels and those made for ½-inch balls can be supplied at advanced price.

any tire.

extra thickness. We use 11 gauge (%-inch) stock for our 2%-inch rims and proportionate thickness for larger rims, which we furnish for

PNEUMATIC AND SOLID RUBBER TIRES.





Tors.	Last Puce	Sees	Law People Early
48 x 4	11.00 17.00 17.00	EL + 2	\$10 00 25 00
30 x.5	15.00	Man a	81.19
#11 #11	17.09	- 86 a F	\$2,00
MAR	18.00	44.4	88 66
30 x 3	19.00	20.00	20.22
20 + 24	TR 66	*****	100
30 x 54	B1 00	54 × 74	80.00
B	\$1 00 \$1 00 \$1 00 \$1 00	85 ± 74	(34.00)
34 x 31	23 103	-	44 44 1
36 x 74	34.00	一日間とも	84 00
Sec. 4	99.90	24 2 4 2	59 09
Mark.	90.00	25.4	M 00
	IN WATER TO	111	40 00



LOSS-DOTTANCE
PREUMATIC THRE
more sourly meetin
this blow of a perfact vehicle tile
than any others.
It is always sade
and in the ends conmonical. It is designated for vehicles,
all divises and
weighte, whether
borne draws or
borne draws or
borne gropelled.

pour protect

Diam.	4 5 . C lot.	134 in. 1	公司金额 (1)	\$1,535	216
	415.86	2000	EN. 20	201.46	100
		3 2 2 4 5	86.40	- TEM.	E0256
-	1948	100	F 46	40.00	-1.00
201	15475	and the second		45.66	
- 10	1000	NO.	9649		
- 10	14586	25.00	20.00	41.00	
-		- 5.0th	20.56	16.00	
	11529 4			6.0	
_	16.00	- M.W.			
-	- 65 PM-	-			
	15.00				40.0
42					
		-	120		



Good	rich Tires are	Guaranteed	Perfect.
Base (Los Perce	Bins	Las Phick
: N	100	211	111
1	11 10	Mar	67.30
117	59.00	#11	12.55

The Goodrich Single Tube Heavy Traction Tires.

See.	Lor Page 1	tox	Lier Pulle Name
#: E	110	Eil	100
Hill	22	B11	112
2:1	41.00	20.00	17.2



Goodrich Clincher Vehicle Tires, Motor Weight.

Prices will be exceed accordingly and Weight of Machine to be used on.

The Tree will be made accordingly and Guaranteed.

18, the according Contents from Paris, and the State of the Contents from State of the State of

0	9-	9	Hartford Single Tube Motor Tires.	(
Billi Billi Billi Billi Billi Billi Billi	List price and the price and t	toolen.	Line prine, morb. 20 miles 20	A needles noteste
Leading Institute Market SEST OF EARTH.	1	THE DIAMOND SUMMER CO.		the second second
	Total a		To the state of th	





GOODYEAR PUNCTURE PROOF PNEUMATIC TIRE.				REGULAR	GOODYEAR Ench		TIRE.	1	GOODYEAR CL			
D1, 28 30 32 34 36	2 In.	2 ½ In. \$16 00 17 00 18 00 19 00 20 09	8 In. \$20 00 21 00 22 00 28 60 24 00	4 In. 89 00 42 00	D1. 28 30 32 64 86	2 m.	2½ In. \$18 50 14 85 15 00 14 75 16 50	3 In. \$ 7 00 18 00 19 00 20 00 21 00	4 In.	D1. 28 30 82 34 86	242 In. \$15 00 16 00 16 75 17 24 18 50	Cost of Rims. \$2 75 2 25 2 45 2 45 2 55 2 65

Goodyear Special Tire No. 1 made in Regular and Puncture Proof Style, \$1.00 less per tire.

"Motor Tire," made only in sizes 28 x 2½, price each....

810 00

This is the standard size used on a number of light machines.

SOLID RUBBER TIRES.

BEST GRADE SOLID RUBBER TIRES.

For Wheels 28 Inch to 80						
inch diameter	% in.	1 in.	14 in.	11/2 in.	1% in.	2 in.
Price	\$18 00	\$28 00	\$31 00	\$36.50	\$50.00	\$60.00
For Wheels 32 in. to 36 in	19 00	24 00	84 00	42 00	55 00	66 00

CUSHION TIRES.

14 inch \$39 00 14 inch 52 00
The above is for set of (4) and channels rims and rubber put on wheels.

Price of Goodyear Endless Solid Rubber Tires.

Following quotations are for tires, flanges, bolts and nuts complete.

Size Tire	Price Per Tire.	Planges, etc., Per Wheel	Total per Tire and Flanges	Outside Diameter of Wheels Fitted with Steel Tire.
28 x 2 ½ 20 x 23 a 22 x 23 a 23 x 23 a 25 x 3 25 x 3 25 x 3 25 x 3 25 x 3 26 x 3 27 x 3 28	\$24 50 25 50 28 50 27 50 28 50 35 00 34 75 39 25 39 00 41 75 45 00 47 60 51 00 53 50 64 50	\$10 00 10 60 10 00 10 00 10 00 10 00 10 00 10 50 10 50 10 50 12 00 12 00 12 75 12 75	\$34 00 85 00 86 39 87 50 89 00 44 75 49 00 50 00 50 00 66 25 77 28	

FOR I		LIGHT AUTOS.	TIRE	"SECONDS" BUT NOT PERFEC AS DURABLE AS "F	T IN MOULDING.
DI.	1%	2 tn.	Di.	24g 1m.	3 in.
82 x 34 82 x 84 84 x 36	\$26 50 28 00	\$27.25 29.50	26	\$10 00	\$11 50

Our Tire Vulcanizing and Repair Department.

Many a tire is cast aside or ruined by poor repairing or vulcanizing. All ordinary punctures can be easily remedied, but serious tire troubles should have the attention of a tire expert. We have an expert to do our vulcanizing and repairing. He has a model repair outfit and can do first class work on any size tire. All tires which are cut or have extra large holes should be vulcanized. In shipping tires mark plainly the name and address. Send prepaid. We will guarantee the charges to be moderate and consistent with good work.



HARTFORD MOTOR TIRE REPAIR KIT.

This kit is especially designed to repair motor and carriage tires on the road. Directions accompanying each kit.

List, each Solution Gun, list, each

inch.......\$0 40

List, per Dozen.

60

72

VALVE PARTS

Hartford Carriage Tire Repair Stems.

11/2 inch \$0 76

List, per Dozen

Size.

inoh.

Unvulcanized.

A and ireh. List, each, \$0.30.

SCHRADER UNIVERSAL VALVE.

00



NEVERLEAK.

Carriage Tires.



Automobile Tire Lugs



Maxson Steam Automobile and Bicycle Tire Vulcanizer
to the easy machine on the market that
does it the same as a Tire to made.

to the problem 10000 PATCHES.

No. 3 Vulcanizer sees at wast

No. 2 Vulcanizer ver



No. 1 Vulcanizer



.... \$1 25



Size.

1¼ inch

1½ inch.....

1

THE "JIFFY" AUTO REPAIR TOOL.





TIRE TAPE .- Black or White.



Best Quality Guaranteed-



Hartford Solution.

A fine quality rubber solution for use with plugs. Put up in

Lt	st each
M pint cans,	\$0 32
& pint cans,	50
Pint cans,	80
Quart cans,	1 50
Gallon cans,	5 50



Hartford Vulcanizing

Cement.

Put up in

List each Half pint cans, \$7 50 Pint cans. 90 Quart cans. 1 50

5 50

Gallon cans,



"Quick Seal" Cement.

For use without plugs

- at ap	THE RESERVE
L	ist each
4 pint cans,	80 30
42 pint cans,	55
Pint cans,	90
Quart cans,	1 85
Gallon cans,	4 60



Hartford Carriage Tire Vulcanizer.



Hartford Tire Repair Stems.

With valve wired in.

Price, 25 cents



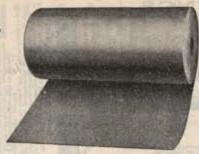
Hartford Metal Base Valve.



No. 4 Lever Pump.

Capacity the special Months in





Rubber Corrugated Matting.

The rubber compound used in our matting is designed especially for the service and is almost indestructible. For footboards on Automobiles or Carriages we do not recommend anything lighter than one-eighth inch.

List per square foot:

1-inch, \$0 40 ‡-inch, \$1 03 ‡-inch, 1 30 -inch, \$1 03 56 -inch. ineh, 73

Made 36 inches wide; cut any length desired. Cut to order in any size or shape.



No. 97.-Stationary Pump.





COMPLETE HAND OUTFIT



Fig. 108 aperteds of No. 81 Council Triple Cylinds Fromp. Platform and Uprigion for Mouriting Mon-on Max poliny on minor is discuting over pullary in george, 1, Hayte power Hotor. We adoless continued in providing the contract in their own prime.



HAND FUND CONNECTIONS Prop. - In Corp.

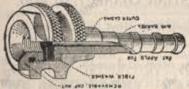






"A" Hose Coupling.

Perfect Pump Connection.



"K" Tire Nipple. Taper end fits into "A" coupling, and small threaded end into the tire-valve. Has extra heavy leather washer.



Leather Cup Pump Washers-List price, each.



"Star" Pump Connection. PATENTED.

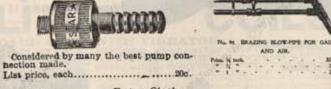


List price, each 20c.



Extra Cloth Insertion Rubber Tubing.

List price, 3-16 in. per foot, 14c 5-16 ...





Each instrument is packed in a box, with necessary bracket and screws, and contact ring, with full instructions for attaching.

... \$10 00 Price, each.....

FORSKELL SPEEDOMETER will show the speed at which you are traveling. Not affected by rain or mud. Warranted absolutely accurate.



No IS SAFETY VALVE.

. 8 55.00



REGULATOR. Febru, \$2.75



				Acres	0.0	AMP.			
Prim	ÿ,	bet.		1	9		100	200	20,36
100	ĸ	*		-				204	3,00
0.00	r		18		2.5	-		217	- 175







Print Nated ple



Fig. ISE. STORAGE OUTFIT INCOME PARTY

Price, with an ing below I got been. \$40.00



DROP FORGINGS

of finest quality for Automobiles, etc.

VALVE STEM FORGINGS



For Gas Engines, etc. Dimensions show sizes of unfinished forgings. List prices an

	4	3	HEAD		Se	ER I	Lo	0.08	News	Price for Extra	1	140	l
77.	Number	Sales Diam.	Paris Division of the Control of the	121	Diam	Lements	Date	Lange L	Price, Each	per Inci- ter fruct fon Thereof.	1 6	Namber	
		110000		HIER	Thurst.	0 1-8 0 1-0 0 1-0 0 1-0 0 1-0 0 1-0 0 1-0	5-18 5-4 5-7 11-16 6-18 6-11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	BESS SEED	A B	2 4 6 8 10	200
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"Hour slightly receased on Stem side"

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	a Par	
į,	2202023	ax
Price for ex- tra length, per length, per length (fenetion thersot.	********	84
11	RESERVE	99
Distance Between Arms		2 m
All a	111/111	27

| Control | Cont

Historia

77

Note—Diameter of lug on head on B2 is $\frac{r_0}{r_0}$ instead of $\frac{r_0}{r_0}$.

Diameter of stem of B14 is $1\frac{r_0}{r_0}$ instead of $\frac{r_0}{r_0}$.

The length of lug on head on C4 is $\frac{r_0}{r_0}$ instead of $\frac{r_0}{r_0}$.

F style of stem starts with F2 instead of F6.

Brake Step.



Diameter of Pass	DIMENSIONS:
Length over All	DIMENSIONS:
Diameter of I er to Center o	f Bosses. 972 "
Diameter of Small Boss	
Price, each man boss	***************************************

Rod Ends,

Forgings.

These Rod or Stub Ends are drop-torged from mild steel that welds easily. They will be found of great service in general shop use or machine manufacture as ends of Connecting Rods, Oscillating Bars, Shifting Levers, Eccentric Connections, Yoke Heads, etc., etc.

Prices will be given for special forms on receipt of model or drawing and specifications stating quantity required.

ORDER BY NUMBER

			or no security of		
Number	Dalmeter SH	ANK————————————————————————————————————	Diameter	Thick-	Price each
2-A 3-A 5-A	3-8 1-2	334 144 434	14	7-16 36 12	\$.10 .10
6-A 7-A 7-H	9-16 5-8 5-8	304 434	11-16 116 116	7-16 15-32	.12 .15
7-C 9-A 14-A	5-8 3-4 1 1-16	112 872 594	184 194 2 1-16	98 98 196	30 00
	a few standards			393.0	

FURNISHED UNFINISHED ONLY.



Steering Rod End.

Forging No. R. C. 28.

DIMENSIONS:

Length over all	
Diameter of Shank &	
Length of opening in jaw 15-16 .	
Width " " " 7-16 "	
Price, each2	Sc.

STARTING LEVER.

Furnished Unfinished Only. Quantity Discount on Application.



Nos. 21 and 24 A.	-	ac.
Length over all, 9% inches	76.00 III / C	0
Length Hubs—Large, 2½ in. Small, 11 in Diam. Hubs—Large, 1¼ in. Small, ¾ in	6	000

CONNECTING RODS.

Furnished Unfinished Only. Quantity Discount on Application.

DROP FORGED.



No.	Length Web,	Thickness Webb.	Dlam.	Head.	Thick.	Head,	Pric	е.
	c. to c.					Large.	2014	9
21A 24A	7 Av 7 %	1/4 1/4	10	118 189	3% 3%	1 1		00

BRONZE CASTING CONNECTING ROD.

No.	Length of Webb.	Thickness Web.	Diam.	Head.	Thick.	Head.	Price.
	c. to c.	Web.	Small	Large	Small.	Large.	55.514
0 1 1A	914 12 18	KKK	1½ 1½ 1½	2 2 2½	11/2 21/2 21/2	2 2½ 2½ 2½	\$2 50 2 75 3 00



PRICE OF STARTING LEVER HANDLES.

Number	.00	0	1	2	3	4	5	6	7
Length Shank	3/2	3%	36	34	3/8	1	13%	114	136
Length over all	2	234	236	314	37%	436	51%	534	656
Diameter Shank	10	사	計	14	10	17	12	11	34
Price, each	\$ 04	05	06	68	10	12	14	16	22

A NEW BOOK.

"All About the Automobile"

640 Pages, with nearly 500 Illustrations.

A fine publication \$5 00

ADDRESS A. L.IDYKE, 1402 PINE ST.

Dyke's "Special" Jump Spark Coils.

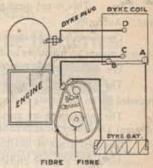
Guaranteed to be wound with pure silk covered wire. Ask the other maker if he uses silk covered wire.



GUARANTEED IN EVERY RESPECT.

They have no equal in workmanship or durability. Gives a fat one-inch spark.

The wire used on this coil is silk covered. Case oak finish; polished brass parts. Moisture proof,



Plan for Connection.

Using Splitdorf Coll. Dyke's System. Igniter contacts both thoroughly insulated from Engine. Vibrator on Coll used.

Price \$7.75 each.

Dyke's Compound Coils.

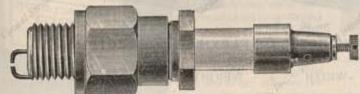
The Compound Coils are designed for double cylinder engines.

The Compound Coil is simply TWO coils made together.

Price of Compound Coil,

Quadruple Coils (4 Coils in one for 4 \$36.00. Cylinders), Price,

Dyke's Special Jump Spark Plug



FULL SIZE. Threaded for 4:-in., %-in. and metric system. Imported glazed porcelain, genuine iridiam platinum points. Contraction

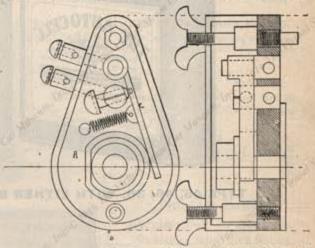
Imported glazed porceinin, genome allowed for.

Mica does make a good plug for the simple reason that a deposit of carbon accumulates between the layers of mica and short circuits.

Those who are experienced have discarded mica and are now using our glazed porceiain plug (not plain porceiain).

Price, \$1.50 each; Extra plain Porcelains, 30c; Extra porcelain, complete, with point and brass head, 80c.

DYKE'S JUMP SPARK IGNITER.



The contacts are both thoroughly insulated from the engine. Built to last. Fibre base and cam. Aluminoid cover. Can be fitted to almost any Gasoline Engine in connection with our Coll and Plug and Battery.

Price of Igniter complete

We make a Double Igniter for Double Cylinder Engines 812 60 Triple Quadruple Igniter for 4 20 00

A FULL LINE. **WE ALSO CARRY** Prompt Delivery. IN STOCK

\$9.00. SPLITDORF STANDARD COILS WITH VIBRATOR JUST OUT. The finest Coil made for Bicycle Motor Work. Length. 12 inches; diameter. 24 inches; weight, 34 lbs. Made with three terminals. Guaranteed to be wound with pure silk covered wire. Price, \$12.00. SPLITDORF BIKE MOTOR COIL



No. 2 Coll for Bike Motors is constructed on practically the same lines as No. 1, except it is smaller in size, being shorter, and will probably suit for motor work in some cases better than No. 3. Weight, 5 lbs.; size, 34 inches; length, 7 inches.

\$7.25 Price

DYKE'S SPECIAL LOW TENSION COIL

For wipe spark or "hit and miss" method of ignition. This coil is far superior to any low tension coil on the market. Will give a larger spark with less current.

Price each



DYKE'S PLUG SWITCH

For Gasoline Automobiles and Launches. A small, practical switch, for the battery circuit, which can be mounted in seat, dash, or other convenient place, and having a removable contact plug, which can be withdrawn when not in use and retained by operator, thus preventing others from starting engine or exhausting batteries. Flug is retained in switch by a suitable spring, securing it in either of two positions: one with circuit elosed and one with circuit open, or, when desired, plug can be entirely withdrawn, thus serving as a switch key. Switch is 1% in. long by 1% in. diameter, with a top-plate 1% in. diameter. Finish is either brass or nicede, as erdered.

Two regular styles are furnished: one with screw connecting posts, and one with side extensions, instead, for soldering wires. Top-plate and plug-handle insulated from circuit. Two plugs furnished with each switch.

Price, each, \$1.25

See page 24 for cut.



No. 3

MOTO CYCLE JUMP SPARK COIL.

Manufactured especially for Tan-dems, Moto Bikes, etc. 10 in. long, 2½ in. diameter and weighs 4 pounds. Can be easily attached to frame of any bicycle. Price, each, \$7.25



For running your wire through from your Jump Spark Coll to plug. It will thoroughly insulate the wire from the frame of machine.

Price, per foot...... 25c

A S the Ignition Battery is the Heart and Soul of your Automobile, why not be sure you have the best? With our Batteries on your Machine, you can "get there" and "get back."

This is not mere guess work, but a fact demonstrated every day by owners of Automobiles equipped with "Columbia" dry cells and "Autocells."

On the following pages we show a line of ignition batteries designed to meet all conditions of service and of different sizes adapted to various makes of machines and suitable for all forms of wipe spark or jump spark ignition.

We are furnishing Batteries for Automobiles, Launches and Stationary and Portable Gas and Gasoline Explosive Motors.

The "Autocell" consists of either three or four especially constructed dry cells in a sealed metal case. Each individual cell is surrounded by an insulating material, making the battery as a whole water and moisture proof.

The connections are made in such a manner as to absolutely prevent trouble from loose or imperfect contacts. This has been a source of great annoyance to automobilists in the past.

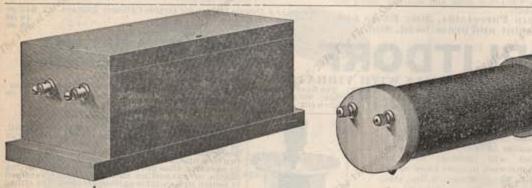
The best grade of flexible rubber covered wire of ample cross section is used in connecting up the cells.

The "Autocell" is furnished with either flexible wire connections or binding posts, as desired.



TYPE 48, 46, 36, WITH EITHER BINDING POSTS OR FLEXIBLE CONNECTIONS.

TYPE	LENGTH.	HEIGHT.	WIDTH.	WEIGHT.	VOLTS.	PRICE EACH.
36	8 in.	8 in.	3 in.	11 lbs.	436	*2 25
46	10¾ "	8 ::	3 "	15 "		2 50
48	15¾ "	9 % "	436 "	34 "		6 00





SPARK COILS.

1.	Water-proof, wood case spark coil	\$4 00 each
2.	Ordinary eight-inch spark coil	2 00 each
3.	Dyke's Standard Special Wound	Coil for wipe spark 2 50 each

SPECIAL COLUMBIA ROUND DRY BATTERY.

TYPE.	HEIGHT, INCHES.	DIAMETER, INCHES.	WEIGHT, POUNDS.	VOLTS.	PRICE, EACH.
Spec. Col. No. 6	6 7 8	2½	2¼	1½	\$ 40
Spec. Col. No. 7		3	3¼	1½	1 40
Spec. Col. No. 8		3½	5¾	1½	1 50

Batteries for Gasoline Engine Ignition.

FOR AUTOMOBILES, LAUNCH and STATIONARY ENGINES.

NEW EXCELSIOR COMPOUND DRY BATTERY.



NEW EXCELSIOR COMPOUND.

	No. 1.
Length	181/2 ln.
Width	848 **
Height	8 "
Voits	6
Amperes	25 to 30
Price.	85.00 I

This is a very handy size and is used by a number of leading manufrs. We would advise the use of two of these batteries connected in such a manner that you can run one battery, say for a day, then the other set, giving the previous one used a chance to recuperate. In this way you will have long and continued "good service."

The above batteries are contained in a tin enameled case.

NEW EXCELSIOR "ECLIPSE" BATTERY.



NEW EXCELSIOR "ECLIPSE."

No. 3 and 4 Sizes.

Above connected in a tightly sealed tin case amply protecting from shortcircuiting.

NO, 3.
4 Cells Connected
Volts 6
Amperes 35
Length 1049 tp.
Height 9"
Wioth 6th "
List Price \$10.00

No. 4		
Volts	neci	9
	15%	in.
Width	64s	

Ethis is made in two sizes larger than the above, although the above battery will run your coil just as good as these larger ones; the advantage in using the larger battery is in the fact that the No. 8 and 4 New Excelsior Eclipse have a longer amperage or longer life. In other words, by using two sets of this size—say two sets of No. 8 or No. 4, you can run one set for a day or so, then run the other set, and so on.

This new

EXCELSIOR ECLIPSE

is also contained in a tin enameled case and made in two sizes—No 3 and No. 4.

"ECLIPSE" SINGLE CELL BATTERY.



"ECLIPSE" CELL.

Absolutely Relia	ble. Single Cell.
Volts 1.5	Width 24 in.
Amperes 25	Length 6 "
Height 742 in.	List Price \$2.25

Joints of these cells are generally connected together.

They are used principally for stationary and boat engines, where there is plenty of room,

This is undoubtedly the largest and most efficient

DRY CELL MADE.

It is the type that was used in the government gasoline Life Boat during the Buffalo Exposition, and is being used by several leading automobile manufacturers who have plenty of room for n. same.

Bike Motor and Light Batteries.



NEW EXCELSIOR COMPOUND DRY BATTERY.

For Motor Cycle, Sizes 0 and 00.

This tube contains three single ceils of battery and is intended to hang from frame. The No. 00 size being a little larger will last a little longer, yet for its length of life (which is long) No. 6 will spark your engine just as well as No. 00.

No. 0.	List	No. 00.	List
Length	184½ in.	Length	21 in.
Width Volts	1% "	Width Volts	236 "
Amperes.	12 to 15	Amperes	16 to 20
Price	89.75	Price	83.00



SINGLE CELL USED IN No. 00 AND No. 00.

SINGLE CELLS.—Our 6 in. x 2 in. Cell is giving very general satisfaction. We can unqualifiedly recommend it. Price, each cell, 35c.

No. 00 SINGLE CELL-Little larger than No. 0.

Price 45c.

These Cells are put in the No. 0 and No. 00 Tubes when those which come with the Tube are thoroughly exhausted.

		SOME CYLINDRICAL SIZES.		L	Ist
Size	8 x84	inch	Price	\$1	05
	7 lbx 84		44		90
66	7 ×8		49.		70
44	6 x24		44		45
6	6 X2	**	**		35



No. 000 Battery.

Volts 6 Amperes 16 to 20 Height 64 in

Price \$3.00 List

No. 000 Battery

Is intended for Tricycles, Quadricyc lesor Bike Motors, when the latter machine has room for same; its special shape may please you better than the long tube. This type also suitable for light autos.



TYPE D4 BATTERY.

This special battery was designed to fit the De Dion Quadricycle Battery Case and others. It is put up in an insulated case—4 cells being arranged therein. This is a very powerful battery. We can supply the tin enameled cases to take these batteries, with hinged side, opening from side, for \$3.50.

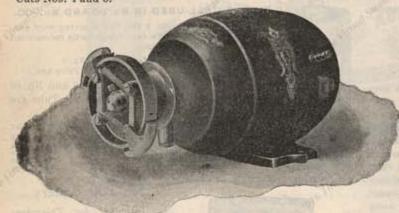
Dimensions, etc., D4 Battery.

Length.	Height.	Width.	Weight.	Volts.	PRICE.
13 in.	742 in.	3 in.	16 lbs.	6	\$7.50 List

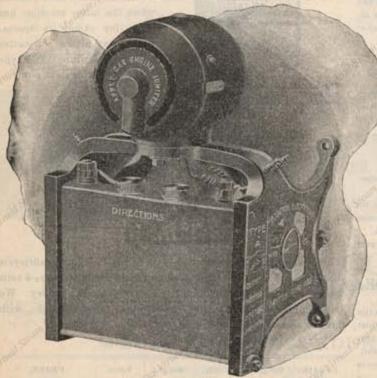
THE APPLE IGNITING DYNAMOS AND ATTACHMENTS. FOR AUTOMOBILE AND GAS ENGINES.

"UT No. 1 represents the Type "E" Dynamo closed, Cut No. 2 shows the same with door open, Cut No. 3, Dynamo fitted with belt governor, and Cut No. 4 fitted with friction governor. This dynamo is guaranteed to be the most complete and best made igniting dynamo on the market and is sold at as low prices as other dynamos of other make. As will be seen from cuts it is absolutely water and dirt proof when closed and yet has ample provision for easy accessibility to its working parts, even when ruuning, and is the only machine on the market with these valuable points.

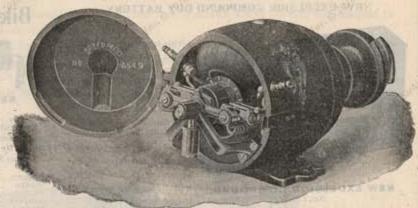
The governor attachments are valuable and almost a necessity on gas motors varying in speed, as they will regulate the speed of the dynamo, no matter what is the speed of the engine. The belt clutch governor, shown on Dynamo Cut No. 3, is also made for friction and gear drive when desired, as shown by Cuts Nos. 4 and 5.



Cut No. 3. Type E Fitted with Belt Governor Pulley.



Apple Type A., Igniting Outfit.



Cut No. 2. Type E with Door Open.

LIST PRICES.

	LI	ST.
Type "E" Igniting Dynamo, no case	\$18	00
Type "E" Igniting Dynamo, Spark Coil in base		00
Type "E" Igniting Dynamo, Jump Spark Coil in base	30	00
Governor Pulley for above Dynamos (Belt)	5	00
Governor Pulley for above Dynamos (Friction)	5	00
Starter with Switch for use with Dynamos	10	00
Spark Coil, Separate.	2	00
Dyke Jump Spark Coil, Separate	9	00

We are Selling Agents for Apple Dynamos and carry a large stock at all times. They are now being used successfully on some of the leading Automobiles manufactured in this country.

The Apple Type A Igniting Outfit.

.This outfit is designed more particularly for stationary engines, but may be used to advantage for marine purposes. It is put in this shape to meet the Belt Governor arranged for demand for a dynamo and battery outfit that can be readily set up and cared for by men not versed in electrical wiring.

This outfit can easily be placed on a post, side wall or floor, whichever is the most convenient, and may be driven from a shaft or fly-wheel that is either parallel with or perpendicular to the outfit. Belt or friction drive can be used, as the pulleys furnished are interchangeable.

By simply loosening two machine screws the dynamo may be turned at any angle without moving the outfit.

In using this outfit the spark to start the engine is taken from



Cut No. 4. Friction Drive.



Belt Governor arranged for Gear Drive.

the battery, and as soon as the engine is up to speed the switch is thrown to the dynamo side and spark is then taken from the dynamo, which at the same time automatically recharges the battery.

The battery is a two cell, three plate, four volt storage battery. There is not a joint in it and is designed for ignition purposes. It is almost entirely sealed and is shipped fully charged and ready for use. Retail Price complete, \$30.00. List.

AUXILIARY HAND OIL PUMPS.





Full Size Closed View Oil Cups.

10086	Water.	Discover.	Thread Prob.	Longth.	Diameter of Bresagon.	Dig stable
and led	HO OM	The state of the s	dimit.	Smile 	- miles	



Dyke's Gasoline Engine Cylinder Oil.



Ordinary Cylinder Oll will not do for gasoline engines. It will not stand

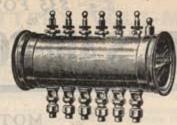
gasoline engines. It will not stand the heat.

If you have operated gasoline engines you know the importance of using a good grade of oil. This oil is the best. The can is designed to go under the seat, etc. Try a can for the can's sake. You will then use no other. Quart cans 75c, ½-gallon \$1.00, gallon \$1.50.

Dyke's Chain and Bearing Lubricant.

Guaranteed to be the best for lubricating chains and bearings. One application will last for a long time and keeps the chain and bearings in good condition.

Price, 2-lb. can 75c; 5-lb. can \$1.40.



No. 2 Multiple Oilers.

		1.07	PRINCE		913
3	144		PERCH.	Edicin.	510.
1				1.30	10.00
1	200		9.00	76.M 95.00	14.00
1				100	22
10	900			28.00	- 24









PLAIN BRASS OILERS.

ELBOW SHANK OILERS.





PLAIN BRASS OILERS.		. 100	No. 10	1 No. 102	No. 103	No. 104	No. 165	No.166
Diameter, inches	50		\$4 \$0 80 10	% th \$0 25 10	1 14 \$0 40 10	1 14 14 \$0 60 15	11/2 198 50 90 15	1% E 1/2 \$1 25 15
ELBOW SHANK OILERS.	No. 12	No	. 128	No. 124	No. 1	25 No	126 2	No. 12
The state of the s	100	1				100		

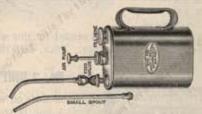


THE "PARAGON" OILER.

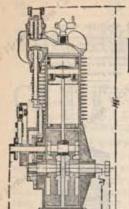
The only practical Oil Cup for cylinders of gasoline engines.

The advantage is in the "vent" tube

PRICE.

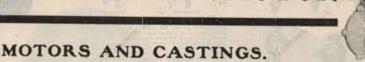


PNEUMATIC OILER.



\$35 FOR MOTOR ALONE.

DYKE'S AIR-COOLED BIKE MOTOR



These motors are correctly designed to fit on the ordinary bicycle frame; it is neat in appearance, light in weight, but strong and powerful. It develops 11/4-horse-power at 1,000 revolutions. Electric ignition by Jump Spark method, which allows easy control of speed and power by variation of time of ignition.

Workmanship and material first-class in every particular. Every motor guaranteed in every respect.

11 CYCLE MOTOR.

This motor is especially adapted to use on bicycles. SPECIFICATIONS.

Weight	22 pounds
Length of Stroke	
Diameter of Piston	2¼ inches
Height	14% inches
Diameter of Casing	6½ inches
Width of Casing	2% inches
Total Width of Motor	
Revelutions per minute	1000 to 1800
Motor only, Price, Aluminum Crank Cases	835 00

Castings.

For the Accommodation of those who wish to construct these motors themselves, we can furnish complete sets of castings and other parts, including Blue Print Working Drawings with each set.

Complete Set of Castings, including Cylinder and Head, Crank Case. Balance Wheels, Piston and Rings, In-Take Valve, Connection Rod, Gear Case Cover, Ignition Case and Cover. SETS WITH CAST IRON CRANK CASE.

1¼-Horse-Power.	\$12	50
1¾-Horse-Power	16	00
SETS AS ABOVE WITH ALUMINUM CRANK CASE		
1¼-Horse-Power	815	00
1%-Horse-Power	20	00

13 H. P. TRICYCLE MOTOR.

This motor is especially suitable for Tandems and Tricycles, and will develop at 1000 revolutions per minute 14-horse-power; 1400 revolutions, 2-horse-power.

SPECIFICATIONS.	
Weight	50 pounds
LCHEUI OI SHUKE	3¼ inches
Diameter of Piston	3 inches
neight	181 inches
Diameter of Casing	9¼ inches
Width of Crank Case	3% inches
Total Width of Motor	7¼ inches
Revolutions per minute	1100
Motor only, Price, Aluminum Crank Cases	850 00

Price Machine Work on Castings.

Machining Cylinder, Complete		H. P.	1% HP \$6 00
Machining Cylinder, Head and Valve Seats	2	00	3 00
Fitting Pistons and Rings		50	3 50
Making Valves and Stems, each		75	1 00
Machining Fly Wheels	4	00	6 50
Machining Connecting Rods	100	00	1 75
Fitting Air Valve	2	00	2 25
Machining Crank Case	2	50	6 25
One Set 2 to 1 Gears	- 1	50	2 50
THE ROLL OF THE PARTY OF THE PA			

BRACKET FOR HANGING MOTOR will clamp to the tubing. This bracket is bolted to crank case by means of studs which hold the case together. Made of Brass. Price for 1½-H.-P. Motor

Price for 1½-H.-P. Motor

REAR PULLEY rolled out of sheet steel, with lugs riveted for attaching to rear bike which. Price

BULER PULLEY OR BELT TIGHTENER. Price

BY SE'S BIKE MOTOR CARBURETTER—The simplest and best Bike Motor Carburetter made for 1½ or 1½ H.-P. 85 00 86 00

DYKE'S BIKE MOTOR MUFFLER for 1%-H.-P. Engine or 1% 83 50

OUR No. 3 Coil.

This cut represents our No. 3 Coil, and it is manufactured

especially for sparking Bicycles, Tandems, etc. Size is 10 inches long, 21/2 inches in diameter and weight about 4 pounds. This coil has four terminals and can be easily attached to the frame of



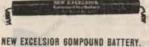
any bicycle. It is just what is needed for this work and is constructed to work on a low voltage. Price, each \$7 25

No. 2 BINE MOTOR COIL.



Is made on same line as No. 3, but is shorter. In some cases where the Coil is desired on back, across under the seat, this one will answer better than No. 3. Diameter,

3¼ inches; length, 7 inches; weight, 5 pounds. Price \$7 25



	No. 0		
	SIZE,	S	CZE,
Length	18½ in.	21	in.
Width	13% in.	23	in.
Volts	- 6	6	
Amperes	12 to 15	16 t	0 20
Price	. \$2 75	\$3	00

Dyke's Motor Battery No. 0 and No. 00.

This Tube contains three cells of battery, and is intended to hang from frame. The Spark Coil is strapped directly underneath it. No. 00 is a little larger than No. 0 and will last a little longer.

For Different type Bike Motor Battery see page 29, No. 000.

HARD RUBBER GRIPS with Switch attachment \$3 00

Dyke's Jump Spark Plug.



Special Pattern Imported Glazed Porcelain. Price, 1/4 inch or 1/2 inch \$1 50 Genuine Iridium Points.

MOTO BIKE, less Motor, etc. Extra heavy frame, 14-gauge tubing, 188 a rear stays, tires, 1% inch. Moto Bike Saddie fitted with adjustable handle bars and notch grips. One-piec Enameled any color. Price, with wood-rim Wheels, 855 to. With steel rims add \$4.00. ar stays. Height 22 or 24 inches, fitted with M. & W. do uble-tube One-piece crank shaft. Any style coaster brake on the market.





Volt-Meters and Volt-Ammeters.

For Testing Storage and Primary Bat-teries of all Kinds and for General Measurements.

These instruments are accurate and reliable and are guaranteed against defects. They are of the permanent magnet type and are made in a thorough manner, electrically and mechanically, on the same principle as the best of the large instruments. The magnets are of special imported steel and are carefully aged. The pivots of the moving parts are hard and sharp and rest in jewels. Each instrument receives careful attention and adjustment and its scale is made separately by hand. The instruments are used by the leading electrical and automobile companies.

Volt-Ammeters for Testing Dry Batter-ies, Etc.

u to 10 and 1 to 10 in fourth ampere scale div's.

0 to 10 and 0 to 15 in haif ampere scale div's

0 to 10 and 0 to 20 in single ampere scale div's

0 to 2 and 0 to 15 Volts and 0 to 30 amperes 19 00

Voltmeter for Testing Single Cells of Storage Battery.

6 to 8 Volts in twentieth volt divis-Morocco Leather Case, \$1.00

BATTERY VOLT-METER.

Reading 0 to 3 Volts in 1-10th Divisions and 0 to 10 Volts.

A convenient and practical instrument for those who either sell or use Primary and Storage Batteries. Particularly adapted for use in the Telegraph. Telephone, Electric Gas Lighting and Bell Work, Experimental Work Motor Vehicles, and various other places where batteries of any description are used. Its range will cover two cells of Primary or one cell of Storage Battery; is DEAD BEAT in its readings. Simple in construction and not liable to injury with ordinary use.

Non-removable nuts on strong contact-posts. Small in size; light, and of convenient shape to carry in pocket.

The accidental connecting of eight or ten cells to the instrument is not liable to injure it.

For ordinary testing purposes, the poles are interchangeable, thus saving much time to the user.

Price, 0 to 3 Volts, \$4.50. 0 to 6 Volts, \$8.50. 0 to 10 Volts, \$10.09.



The HYDROMETER SYRINGE



AUTOMOBILSTS, and all who handle motor vehicles, will instantly appreciate the value of

STAINOFF.

The difficulties heretofore experienced in removing the stains resulting from the admixture of lubricating oils and dirty metallic surfaces, are well known, but

STAINOFF

has at one single stroke removed the difficulty-as quickly as it removes the stains.

Mr. F. C. Donald, President of the Chicago Automobile Club, says:

"A further use of STAINOFF confirms my previous opinion. The celerity with which it obliterates all manner of handstains heretofore derying gasoline, scrub-brush, and copious use of the best soaps obtainable, without objectionable after results is simply marvelous, and I make no question it is destined to become a part of the outfit of every automobilist who may learn of its merits."

Henry Fournier, French Champion Automobilist of the World, says:

"Thave used your STAINOFF and found it more effective than anything I have ever used. It quickly removes the stain of machinery grease and grime which an automobilist cannot help but get on his hands from working with his machine. It is pleasant to use, and leaves the skin soft and white. It is a great convenience for all automobilists."

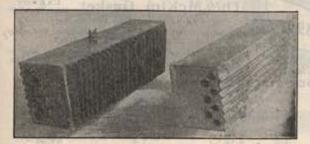
STAINOFF is most convenient, being put up in the shape of a shaving stick, and considering its lasting qualities, it is less expensive than any other preparation—scaps or otherwise—upon the market, 25-cent stick of STAINOFF will outlast 50 cents worth of scap or other preparation and will not injure the skin as alkalies, acids, and scouring materials do. It will keep the hands beautifully white, soft

PRICE PER TUBE, AS SHOWN ABOVE, 25c.

Special Price on gross lots.

Copper Corrugated Water Tanks.

FOR No. 1 VEHICLE.



These Tanks are in tended to be placed in the side of the body. No radiating tube is necessary when this style tank is used.

Price complete, per pair, as shown,	with tubes run-	
ning through	816 00	i
Without Tubes	14 00	

We make other styles to go under seat.

"INSURANCE"

CASOLINE TANKS.

Economy. Safety. Weatherproof.

Suitable for USERS of Gasoline or Steam Machines, Naptha Launches, Gasoline Engines, etc.



DIMENSIONS IN INCHES.

Capacity.	Height,	Width.	Length.	Weight Crated.	Price.
60 Gal	45	22	27	115 lbs	\$12 00
110 **	48	28		185 **	16 00
160 **	48	94	40	195 **	20 00
210 ***	04	Bri	48	285 **	24 00
	**	9.7	44	750 64	99.00

You Simply Can't Afford to be Without

DYKE'S No. 1 AUTOMOBILE TOOL SET. (Rolls up.)

The first Automobile Tool Set on the American market. A select lot of tools. All are nickel plated. Contained in an elegant leather carrying case.

Something you need. Keeps the tools in place. Several combination tools which can be used for various purposes. The case has a pocket at-tachment for screws, etc. All tools guaranteed.

List of Tools Separately.

Fig. 1. Combination.
Drivers, 4 in. long. Combination Knife and Screw

Fig. 2. Small best Tool Steel, 5-16 x 6 inch Chisel.

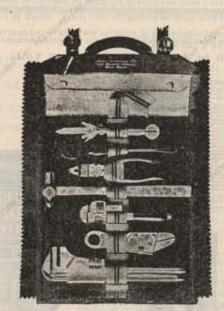
Fig. 8. B. & S. Automobile Wrench, 10 in. long, case hardened. Fig. 4. Small, 4-pound hammer.

Fig. 5. 4-inch Champion Screw Driver

Fig. 5. 7-ln. Universal Pilers.
Fig. 7. Combination Pipe and Nut
Wrench. Leather Carrying Case,
best grade leather, with receptacle for each tool, pocket for
screws, etc.

PRICE.

Leather Case, Felt Lined and Cover, Nickel Plated Tools, \$15 00 Canvas Case, Felt Lined and Cover, Semi-Finished Tools 12 50 If you want your name on the case add 50 cents.



COMBINATION MAGAZINE KNIFE AND SCREW DRIVERS.

Billing's Patent, March 12, 1892, February 4, 1896.



GRIPS FOR AUTOMOBILES, MOTOR BI-CYCLES AND MOTOR TRICYCLES.

Pyralian Grips-All the colors of the rainbow

Pearl Grips-These are very handsome and suitable for fancy finished autos. 1 25

Sponge Rubber Grips-These Grips absorb all vibration from Steering Levers Plain Rubber, list price.

25 Leather Covered, list price. 40



GRADEMETER.

The Grademeter will tell you the exact grade at which you are climbing. Price

Dudly's Auto-Wrench.

The Most Practical Pocket-Wrench Made.

This tool is intended to be used on Automobiles. It is the favorite for the Gasfitter. the Machinist, the Electrician, the Engineer, the Bicycle repairer, or anybody else that has use for a wrench.

The mechanical features are novel and the combination makes the tool almost an universal one. The wrench opens to hold a 114 in. square or hexagon nut and will hold any small pipe, rod, bolt, or stud from 1/4 to

1 inch.

The wrench is made of drop forged tool steel and nicely nickel plated. Each packed

Length, 71/2 inches. Weight, 12 oz.

List Price, each



and Torch Heater.



Adjustable Lifting Jack These Jacks are made of the hert from and Steel, are half-bearing and every part

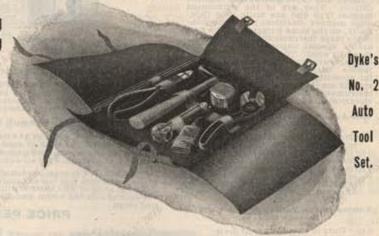
		Interchangeable			
	TLL RAISE.	ADJUSTS.	PRICE.		
No. 1.	2,000 lbs.	12 to 19 inches.	82 75		
No. 2.	\$,000 lbs.	16 to 27 "	3 00		
No. 8.	8,000 lbs.	16 to 26 **	4 00		
240 00	2,000 lbs.	16 to 17 "	母 可方		

IMPROVED COMBINATION PLIERS.

GAS PLIERS, WIRE CUTTERS, WRENCH AND SCREW DRIVER COMBINED.



COMBINATION MACAZINE RAIFE AND SCHEW-DRIVERS.



Especially designed for electric vehicles. Folds up in small, compact space. Can be put under Cushion. Handy for any type machine. Leather case. Best grade Tools. Price, complete, \$8.00.

The McKim Gasket BLOW OUT.

Can be Re-applied Indefinitely. Asbestos lined Gaskets for Gasoline standard sizes, always in stock. Motors.

Note.-In ordering these Gaskets give size of union, viz: A %-inch Gasket fits a %-inch union,

STOCK SIZES FOR STANDARD LIP-UNIONS.

PAT.MAR.13

1894.

Size of Pipe,	Inside Diameter	Outside Diameter	Price
Inches.	Gasket—Inches.	Gasket—Inches.	Per 100.
1-4	9-16	7-8	81 00
3-8	9-16		1 20
1-2	13-16	1 3-16	1 50
3-4	15-16	1 1-3	2 25
1 1-4	1 3-16 1 1-2 1 3-4	1 3-4 2 3-16 2 1-2	3 00 3 50
2 1-2	2 1.4	2 7-8 3 5-8	8 75 4 50
3	3 5-8	4 1-4	6 00

Solar Special Auto The Solar Automo-Gas Headlight. bile Lamp.



Published in Nickel and Sharped, \$1 Non-

Solar Standard Carriage Lamp.



Commercial Antiques State Compacting of State Compacting to how four the gas to the gas the gas to the gas to

THE 20th CENTURY CARRIAGE und AUTOMOBILE HEADLIGHTS.



DYKE'S STANDARD AUTOMOBILE ACETYLENE GAS LAMP.

PRICE per Pair, \$10 00

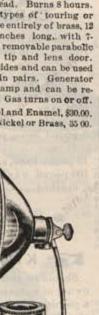
No. 4—Diameter of Body, 34 inches-Depth of Body, 42 inches-Side Flange. 24 inches-Front Flange, Extreme Length,

Solar Headlight

(FRENCH TYPE)) No. 4.

Will project an intensely powerful light 1,000 feet alead. Burns 8 hours. Suitable for all types of touring or racing cars. Made entirely of brass, 12 inches high, 10 inches long, with 7inch light opening, removable parabolic reflector, 1-2 foot tip and lens door. Has lug on both sides and can be used as single lamp or in pairs. Generator is independent of lamp and can be removed for filling. Gas turns on or off.

List Price, Nickel and Enamel, \$30.00. Full Nickel or Brass, 35 00.



AUTOMOBILE ACETYLENE SEARCH LIGHT.

Here, is a Lamp that will throw a light \(\frac{1}{4}\)-mlie ahead. The reflector is placed on the front ax'e or where desired, and the generator which holds the carbide and water is placed on the inside of the dash or under the seat. The gas is conveyed to the reflector by a small rubber tube. A valve is included for shutting off or making the light as bright as desired. Reflector, 7 inches diameter; generator, 8 inches. Price, complete, with tube. Letc. \$15 00





Generator Lamps

As shown in accompanying cut, have the same general lines as the Special Automobile Headlight, removable parabolical reflector, lens door and one-half foot tip; also a 11/2-inch rear red signal. Are fitted with two lugs on single lamps and one lug when used in pairs. Single lamps are adapted for small launch headlights or search lights. Project intense light 1,000 feet.

Above cut shows No. 2 Generator and Special Auto Headlight Lamps,

No. 1 Generator (1 light) . . . Price \$10.00 No. 2 Generator (2 or 3 lights) . Price 15.00 15.00

Generator Lamps

Nickel and Enamel Finish . . per pair \$15.00 Enil Nickel or Brass Finish . per pair 25.00



Solar Electric Lamp Styles



Pairs as shown above. No. in order.
No. 553 B pair, \$11.00 No. 557 . pair, \$11.00
No. 554 . pair, \$0.00 No. 558 . pair, 20.00
No. 556 A pair, \$1.00 No. 555 A pair, 14.00 Headlights as shown in center. No. in order. o. 560 . sach. \$4.00 No. 561 . each, \$7.50

Solar Electric Vehicle Lamps

Are like all other lamps of our make, specially constructed so that they will withstand the use to which they must be subjected without jarring to piece's like other converted cheap oil lamps. They are of unique but simple designs, richly finished, and add beauty and dress to the different styles of vehicles for which they are intended. Have full silver lining inside, outside trimmings in nickel to withstand weather, are fitted with 134 inch red rear jewels, bevel French plate side glasses, medium size finger iron lugs, and equipped with 8 c. p. 40 v. incandescent bulbs and bases, but not wired. We make a large variety of styles and sizes, not shown in the accompanying cut, fully guaranteed. Liberal discounts. to manufacturers and dealers.

BIETZ AUTO-MOBILE LAMP.

DIETZ AUTOMOBILE HEAD LIGHT. FOR KEROSENE.

Front 74 inches diameter, extension back and top piece sockets on both sides for "E" Holder, continuous reflector, no red light in rear.

Exactly suitable for headlight on a light machine.

LIST PRICE.

Japanned black, Nickel Trimmings Polished Full Brass Holder, Style E. Extra Lens

The Practical Advantages of

DIETZ TUBULAR AUTOMOBILE SIDE LAMPS

(Shows White Light in Front, Red in Rear) may be sum-marized as follows:

It throws its entire volume of light straight ahead for a distance of 200 feet or more, lighting up the whole road.

It burns with a clear white penetrating flame of 20 candle-power (United States Government test).

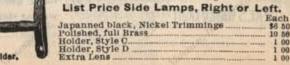
It does not smoke and is free from odor.

The lamp is handsome and duryble.

It burns common kerosene oil (petroleum or contoil)

It will not blow nor jar out, however rough the

road.
It burns 24 hours with one filling.





Solar Miners' Lamp



As shown in the cut the generator straps to the back and a small rubber tube leads to the flame chamber and reflector, which is very light and fastens to the cap. The generator is constructed so it always keeps cool, and lamp burns to hours, giv-ing a brilliant white light, making it extremely suitable for mining work.

Price \$3.50 each

Solar Launch Headlight



Is 1016 inches high, similar in construction to the standard carriage lamp, with 336-inch front lens, white, and 3-inch red and green side lights, projecting so as to be seen front or side as per U.S. marine laws, finished only in all nickel, and specially adapted for use on inland lakes or rivers, for open launches, and gives an es-pecially strong, white front light, The gas generator is contained in and is a part of this lamp. Both Launch lights are fully guaranteed.

Price \$7.50 each

Solar Launch Lamp



Is 12 inches high, fitted with 3-inch white bull's eye lens, and 4x4 1/2-inch red and green side lights, complying with U.S. marine laws. Burns ten hours. Made triangular shaped, entirely of brass and highly finished. Suitable for all styles of launches and especially adapted for use on inland lakes and rivers. The gas generator is not a part of the lamp, but can be removed for recharging.

Price \$12.00 each



No. 9. Rigid Seat Bracket.



THE FAMOUS SALISBURY-BLERIOT ACETYLENE LAMP.

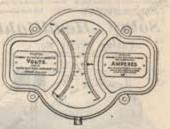
The style used on foreign machines. Extra large and powerful. Enables the swiftest Automobiles to travel safely at the highest possible speed without the slicest danger of its being accidentally extinguished either by the fury of the elements or the vibration and jolting of the roughest roads. Price each \$20.00 For Dyke's Water-light,

The only Safe Lantern. No THE oil, no smoke.

Gives twice the light of an oil lamp, and is posi-GAS tively odorless

Efficient operation: no jarring or blowing out. Polished nickel.

PRICE, \$3.50 NET



Veston Volt Ammeters.

FOR ELECTRIC AUTOS.

10	Amp.,	75	Volt	S	\$35	00
25	44	75	1000		35	00
50	14.	75	116		35	00
100	16.70	75	14	-	35	60

CARBIDE.

Calcium Carbide put up in cans.

2-pound cans, each	80	36	
2-pound cans, per case			
24 cans	7	68	
5-pound cans, each		80	
5-pound cans, per case			
12 eans			
10-pound cans, each	1	40	
100-pound casks, not	1.00		
erushed	11	00	

40 per cent discount.

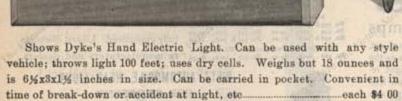
KILFYRE.

Should be carried by every owner of a steam Auto. It is a powder put up in a neat tincase 22 inches long, 2 inches in diameter and weighs 3 lbs. It is the only extinguisher that will put out gasoline, oil, grease or electrical fires. Good thing to keep in your barn or home.

Price, per tube \$3 00 May save its cost a hundred times.

SMALL INCANDESCENT LAMP.

For Dyke's Hand-lamp, \$0 60



Dyke's "Water Light." A Device which should be

used on all Steam Automobiles when driven after dark.

Includes three cells in box all wired, which may be placed anywhere in the vehicle Lamp, push button which can be easily sunk in the side of seat, ample wire for wiring, and can be fitted to any vehicle by anyone, Handy for examining gasoline motors as well as steam engines.

Price \$5 00



IMPORTED FRENCH AUTOMOBILE



No. 25. French Auto. Horn LIST

12

Number 28 b 28 a 28

Total Length. 15 Inch

The French Horns are the finest in the world, made from the best material. This is especially the case with the "reeds." The horns give a clear and distinct alarm and do not squeak. No. 28 is most popular style and is furnished in six sizes, as follows:

PRICES.	
Diameter of Bell.	List Price Each
6 inch	\$13.00
516 inch	10.75
5 "	9.10
4 10	6.50
Sty Ter	5.75
814 11	5 25



28. French Auto, Hora, with Flexible Metallic Tubing Attached.



No. 33. French Adjustable Horn. Length 16 in. Diam of Bell 6 in.

The latest French creation is an adjustable horn. The bell is detachable and adjustable to any angle and is connected to body of horn with a small chain, shown inject. Cut also shows wing nut for clamping band around bell after being adjusted to any angle desired. This is, we believe, the largest horn ever shown in this country, and attracted considerable attention at the late automobile Show, on account of its size, adjustable feature, loud and clear tone. Retail price, \$15 each. Fitted with Flexible Tubing, \$5.00 extra.

American Made Auto-horns.



Diameter of horn bell 4 inches. Double diminished size elbows.

List Price, \$4.00 each.



Diameter of horn bell, 54 inches, triple diminished size elbows.

List Price, \$5.50 each.





This small straight horn shown is seven inches long, gives a clear, sharp alarm, and is intended especially for motor cycles, tricycles, etc.

List Price, \$1.50 each.

FOOT HORN.

PUMP and horn may be fastened underneath body of vehicle, and has sleeve which fits over plunger rod thus allowing the foot board to be readily removad without disconnecting any part of the apparatus. This foot horn overcomes the necessity of taking the hand off the steering gear to blow horn. The horns used are imported and made especially for this purpose. Pump can be purchased separately, and can be readily attached to the horn by rubber tubing. The whole apparatus is very light, weighing but iwo pounds, and all parts are of bronze and ruat proof. It is finished in black ename! (baked). enamel (baked)

"ALL ABOUT

The Automobile."

Pages nearly 500 Illustrations - A Fine Publication.

\$5.00.



Price, \$12 00 complete Price, 8 00 pump only



WILLOW "CARRY-ALL" BASKETS.

No. 1, top length, 22 in., top width, 8 in., height, 16 in. Price each \$4.50 No. 2, top length, 22 in., top width, 94 in., height, 15% in. Price, ea. 5.00

ROUND CARRIAGE BASKETS.

No. 1-8x28	in	84 50
No. 2-7x27	in	13 45
No. 8-6x29	dn	3100
	In	2125
	kets are made of fine willow. Staining toc	
Titele Office	AND ME HIMOW OF HIM WILLOW, STATISTING COC.	OWELIN

TOPS AND CANOPIES

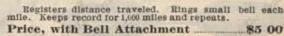




Tops for any Automobile (Easily Fixed).

to the any communication but specially for noting solds send the loose, which are furnished with such tags. This security the crycept to the solds and. The other opening fundamental the how contributed, and the parent of furnished and pages, replace, and it said the applicate a better topy as it.





VEEDER ODOMETER.

Price, complete, without attachment 83 00
With Attachment 3 50
In ordering give out-to-out diameter of wheel which it will be operated from.



PATENTED

Type B.
designed for Moto-Cycles,
Tricycles, etc. Price........ 82 75

AUTOMOBILE FENDERS.

WORLLE PROPERTY

Our fenders are made of the very best of patent leather. They are handsomely stitched and not only practical, by preventing the mud from being thrown over the vehicle, but also prevents the soiling of long coats and ladies' gowns when entering the carriage. Still further, they add to the beauty and general appearance of any vehicle. Model 10 is especially adapted for "Locomobile." "Mobile." or similar style vehicles, and can be fitted in a very few minutes by fastening it to the body of the vehicle, as shown in our illustration, using the screws that come with the fender.

List price, per set of four \$15 00



COLLAPSIBLE RUBBER BUCKET. Folds up (out of the way) in small compact shape.

Fitted with gravel screen and extra long spout.

Canvas Auto. Buckets, without spout 80 81 00 with spout

CANVAS AUTO. BUCKET, WITHOUT SPOUT.



DYKE'S Automobile **IFATHER** CAP

Regulation Auto Cap. Dull Mexican Kid, all Fixes

FRENCH STYLE AUTO CAP.

AUTOMOBILE DRIVING GAUNTLET.



A new idea in Gauntlet. This gauntlet will prove a great comfort to both drivers of horses and to chauffeurs. Fitting, as it does, closely around the wrist, it excludes dust and rain and also prevents drafts up the sleeve, keeping the hands warm. It also protects the coat sleeve and at the same time has a neat and stylish appearance. This novelty adds one more to an already creditable line of our new things.

Made from fine Mexican Kid Leather in Black and Tan. List price, per pair, \$2 25



"ALL ABOUT

Pages, nearly 500 Illustrations. You need it.

\$5.00.



Automobile."



FRENCH IMPORTED LEATHER COATS.

Water proof. Worn in winter as top ceat. In all sizes. Price.

AMERICAN MADE AUTO COATS. A copy of the French coat, made from the best American black leather, lined with blue flannel. All sizes. Price.

LEATHER AUTOMOBILE TROUSERS.

No. 82. First quality unlined black leather trousers. Made to order. List price,

No. 83. Same, but lined with Silesia

AUTO LEATHER VESTS.

PRICES ON REQUEST.



815 00

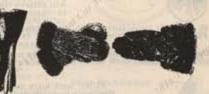
89 50

86 00

10 00







No. 1-Full Leather Gauntlet .. No. 2-Medium Weight Fur Gauntlet. No. 3-Heavy Weight Fur Gauntlet



Cut shows No. 74.



No. 73—Thin Silk, light weight
No. 74—Gray Suede Leather, silk lined
No. 78—Similar to above, with extra pad to protect nose

4 25



THE "FOURNIER" LUNETTES.



SIDE VIEW "FOURNIER" LUNETTE.

The lenses are either white or smoked, and the Lunette is held to the head by an adjustable elastic band. It is lined with soft feit and bound with yelvet.

Eye Protector

Will protect the eye from wind and dust.

Metal Rim, Mica.

Price, 50 cents.

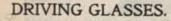


LADIES' OR GENTS' AUTOMOBILE GOGGLE. THIS TYPE SEEMS TO BE THE FAVORITE.

Nickel-plated frame. jointed nose-piece, white or smoke curved lenses, face protector of gray chamois, lined with silk and bound with chemille, shape as above illustrated.

Price \$3 50



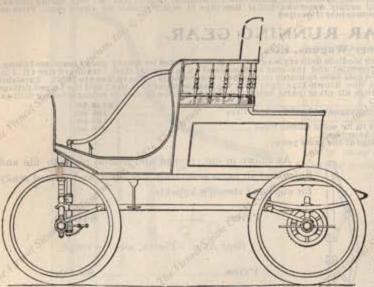








No. 1 S STEAM OUTFIT. (TWO PASSENGER.)



LIST OF MATERIAL WHICH WE FURNISH WITH OUTFIT NO. 1 S.

Running Gear, with center steering fittings No. 1 S, page 40, enameled and nickeled, with double acting band brake. Engine No. 18, page 44. Boiler 16x14, seamless steam shell and tubes with smoke dome attached. Gauge, Steam, 300 lbs., nickeled.
Gauge, Steam, 300 lbs., nickeled.
Gauge, Air. 100 lbs., nickeled.
Auxiliary Hand Water Pump.
Water Column, Safety Pin Valve Pattern.
Pan Safety Valve. Pop Safety Valve.
Throttle Valve and flexible connections. Pin Valves. Throttle Valve and flexible connections. Pin Valve Throttle and Reverse Levers, with bypass. Foot Brake Lever. Blow Off Valve. Pair of Rubber Pad Steps.

No. 15. Body in the white and patent dash.
25 ft. of 1/4-inch, I. P. Copper Connecting Pipe.
10 ft. 1/4-inch Baldwin Block Chain.
Air Tank. Gasoline Tank. Supply Water Tank. Muffler Tank, copper.
Set 28x2/4-in. A grade pneumatic tires.

Set 28x2½-in. A grade pneumatic tires.

One 3-in. double tone Gong. Pair of Carriage Lamps.

1 Mirror. 1 Cylinder Oil Cup.

This Outfit includes everything necessary, with drawing, to build a standard style of Steam Automobile Any ordinary mechanic can purchase these parts and build a successful Machine.

> PRICE, complete as described above..... Set of Full Working Drawings Side Steering Fittings, extra.....

We will supply Concord pattern wood wheels with 114 solid rubber guaranteed tires without extra charge. For prices of either wire or wood wheels with American roller bearings, write us. We do not furnish the complete vehicle, only the parts necessary to construct the above model. Should you want any change in this specification, write us, and we will give you special figures.

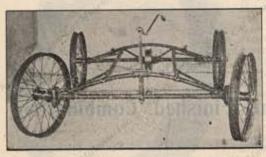
No. 2 S STEAM OUTFIT. (FOUR PASSENGER OR DELIVERY.)



Same general outfit as described under No. 1, but surrey body and No. 2 S Gear for four passengers. Engine, 16x16 boiler, 1/8 or 1/2-inch Baldwin Block Chain, 3-inch pneumatic tires, and fittings heavier in proportion to carry the extra weight.

> PRICE, complete outfit

No. I S RUNNING GEAR. SPECIFICATIONS



Shelby seamless steel tubing, front and rear. Top tubes and reaches 11/4 in., lower tubes, front and rear, 1/2 in., 16 and 14 in. gauge respectfully.

Knuckles dropped forged screwed into threaded yokes with lock nut below: Differential Brown-Lipe Spur pattern, model 6, any size sprocket to 36 teeth. Bearings dust proof 1 or 1/8 in. balls in front, 1/8 in. balls in the rear and keyed solid on rear axle, or with plain bearings if preferred.

Wheels 28x2 1/2 in. with large barre hubs 4 1/2 in. center to center of flanges, nickeled, and forty 1/1 nickeled Excelsior spokes.

Rims. Electrically welded and punched for 5 tire lugs.

Spring blocks two rear and one front 1/30 in between centers.

Spring blocks, two rear and one front, 30 in. between centers. Reaches 22 in. between centers. Weight 150 lbs. including wheels.

Capacity 1,000 to 1,200 lbs.

Track 4 ft. 4 or 4 ft. 8.

Wheel base, choice 54 in. to 66 in.

Steering fittings, center pattern keyed to prevent possible slipping, and each connection fastened by fa in bolt nut and spring cotter.

NOTE.—Each telescoped joint at end of each rod is provided with an oiling device. Price, nickeled only. enameled and striping..... 1% in springs, oil tempered, per set of three-

We can supply 1% or 1% cushion tires on wire wheels if preferred, or we can supply solid rubber with steel channel rims on wire wheels.

Differential will be placed on one side if desired, 5 in. either side of center,

enameling springs and fittings to gear with

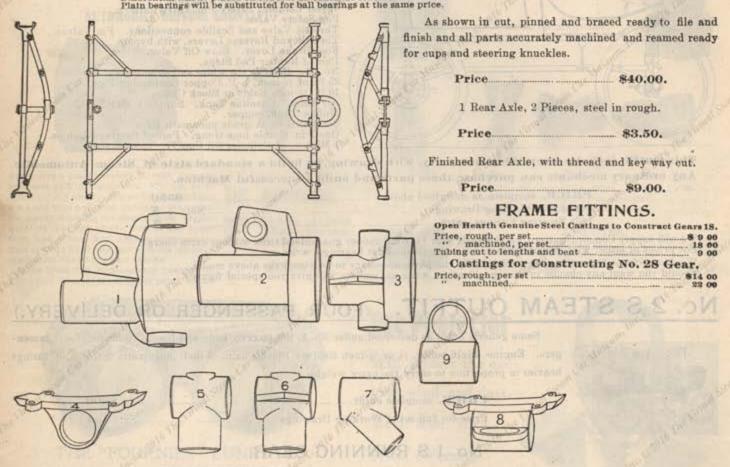
No. 2 S TUBULAR RUNNING GEAR.

For No. 2 8 Outfit. Four Passengers.

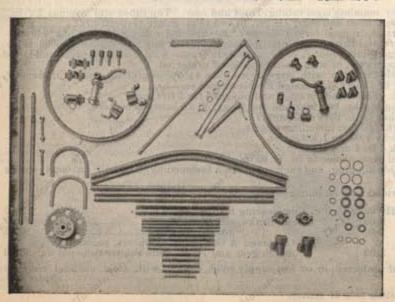
No. 3 S TUBULAR RUNNING GEAR.

For Delivery Wagons, Etc.

This Running Gear is built especially for heavy weight surreys, or medium delivery wagons. It is constructed for heavy gauge seamless tubing, has the fiexible features in reach reds, w.in. balls in front hubs and differential and the rear axle made of 1% in. special steel. Standard size 4ft. 8 in. 60-in, wheel base, but this will be changed without extra cost to 70-in, wheel base to match our delivery wagon body. The spokes are 6x8 in, Excelsion Needle Co., gue ranteed to stand up under a weight of 2,000 ibs. Model One Brown Lipe Spur Bear with same capacity is used and the forged fittings are of uniform strength. Nickel plate is used only on the steering fittings, all other parts being enameled. Choice of side or center steering fittings.



2-EACH No.1-2-3-4-5-6. - 4-No.7 -1-EACH-No 8-8



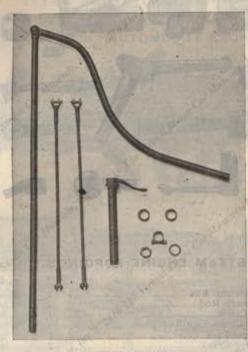
No. 1S

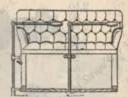
Semi Finished Combination.

Cut shows our special set of Frame Fittings complete, ready for brazing; includes Ball Cups, Cones, Lock Nuts, Balls, Differential Steering Device, Back Axle, Steering Knuckles, and sufficient Tubing. This set is complete in every respect, and contains everything to construct a complete gear. Parts are accurately machined and ready to go together.

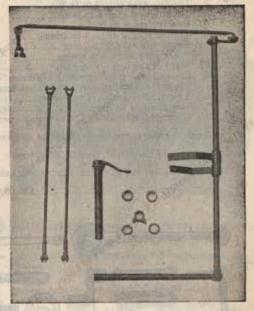
Price, all parts finished in the black \$85 00
"necessary parts nickeled and finished 90 00

STEERING FITTINGS-Including Head Set, Nickeled.



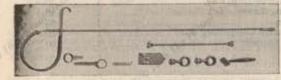


Above shows two methods of using the side steering device.



CENTER PATTERN Price, complete Set, center in black complete Set, nickeled

Price, complete Set, side in black complete Set, side nickeled



BAND BRAKE FITTINGS



SINGLE ACTING. Price, as shown

per set, \$9 00

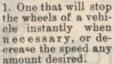
Price, as shown

DOUBLE ACTING.

per set, \$14 00



The requirements of an Automobile Brake:



2. One that can be operated effectively with little or no exertion.

3. One that will act qually effective when the carriage is moving in either direction.

4. One that does not bind nor cause any friction while released.

5. One that will hold a carriage stationary or stop it when moving backward down the steepest hill.

6. One that does not squeak when applied, nor rattle while

o. One that does not squeak when applied, nor rathe while released.

A TEST.—Will your brake hold your automobile still when full power is exerted in either direction? If not, you will do well to discard it and procure an AUTOBRAKE. It is nearly automatic—you furnish only enough power to tighten the band—it does its own gripping. Simple in construction, compact and looks neat on any carriage. Made of the best materials known, providing ample strength and wearing qualities. Easily applied to your carriage and does not mar it in any way. Guaranteed. Finished in Black Enamel. \$10.00 Finished in Full Nickel Plate. \$12.00

"THE DAYTON" BRAKE.

PATENT APPLIED FOR.



Grips uniformly throughout its entire circumference and holds equally well with the carriage moving in either direction.

Very simple in construction; neat in appearance; easily applied; free from toggles to get out of order and make a rattling noise; quick, efficient and reliable in operation. Operated by a single Cam Lever, which is the simplest, quickest and most powerful mechanical device for such a purpose.

	842x142 Inch	84x2 inch	8%x2% inch
Finished in Black Enamel	\$ 8 00	\$ 9 00	\$10 00
Finished in Full Nickel Plate	10 00	11 00	12 00

FORGED FRAME FITTINGS

PRICE OF PARTS-ROUGH.

No.	1.	Rear wheel clip, 2 to frameper pair,	\$1.80
	2.	Driving gear clip, 2 to frame	1.30
**	3.	Front wheel clip, 2 to frame	2.50
**	4.	Reach clips, 4 to frame	.80
	5.	Bottom spring clips, 4 to frame "	2.80
**	6.	Front hub axle, 2 to frame "	2.50
**	11.	Brake foot lever, I to frame	.25
***	12,	Short brake lever, 1 to frame each	.25
	33:	Lower brake steering rod, I to frame "	.65
	34.	Upper bracket for steering rod, 1 to frame "	.65
**	35.	Steering head stem, I to frame	.85
	37.	Step brace. 2 to frameper pair	.65
"	39.	Upper reach brace clip, 4 to frame per set,	1.30

When ordering parts, specify number as given above.

If machined, double list prices.

For the complete set, 27 pieces, machined, ready for use.



STEAM ENGINE FORGINGS.

40.		o each Engine.	Each.
7.	Connecting Rod	2	\$0.50
8.	Eccentric Rod		.50
6.	Ball Crank		.30
7.	Link Connecting Rod		.30
8.	Reverse Link	2	.30
9.	Engine Crank	2	.90
0.	Eccentric	4	.30
1.	Engine Crank Shaft	101	.60
1. 2. 3.	Pump Lever		.30
3.	Cross Head.		.60
4.	Pump Connecting Rod	1	.30
5.	Reversing Lever		.40
6.	Throttle		.85
7.	Hand Pump Connecting Rod		.30
6.	Engine Support	2	.60



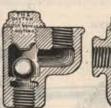
By pass Throttle and Reverse Lever Set, complete like Figure K.

Brazed and filed	\$9	10
Finished and Nickeled	10	60

GASOLINE POCKET TORCH.

BRASS NICKEL PLATED RESERVOIR.

5 in. high. 1% in. diameter. Price \$3,00



No. 46.

FIG. E.

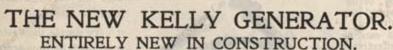
16 SIZE

No. 47.

No. 46. Ball Checks Vertical, 72c

lo. 47. Ball Checks

Horizontal, 72c



No smoke, no flashing or flaring in first lighting. Not necessary to use drip cup. Strong winds have no effect. Clean and quick in operation. All outside connections. Aluminum case over Generator. Gas orifice outside fully protected from wind, Strong, simple and powerful, with valve to control fire at seat.

Advancement and competition in the construction of Steam Carriages demand all parts for 1902 to be durable and effective, and any filmsy devices or experiments presented now cannot be accepted. Experience has put aside nearly all the first constructions in the Steam Motors, and parts must now be made for endurance and have unquestionable merit. All these we present in our new Generator

for the first lighting and keeping up the sub-flame, always in readiness to turn on the main Burner. Our new Generator is small and very neat in appearance, but has a business-like look that only needs a trial to fully convince that it possesses all requirements to the highest degree. As we were the first to produce and present an independent Generator with the valve at seat, together with our experience and constant experiments, fully warrants us in claiming in this new Generator a simple, powerful and durable attachment that will be welcome both to the maker and user of Steam Vehicles. (Our Generator is fully covered by patents and will be protected.) List price, as shown in cut..... 825 00





CYLINDER LUBRICATOR CUP.

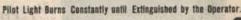


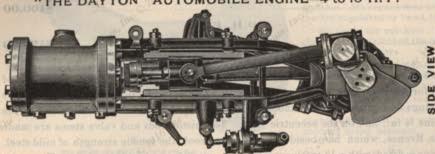
WATER GLASSES.

12 Inch

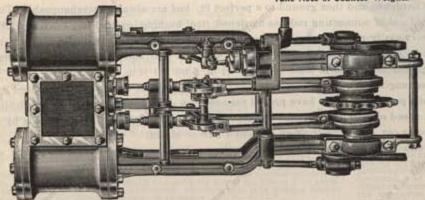
NEW TYPE DAYTON ENGINES, BURNERS, REGULATORS, GENERATORS, WE CARRY A FULL LINE IN STOCK.

"THE DAYTON" AUTOMOBILE ENGINE-4 to 16 H. P.





Take Note of Counter Weights



"The Dayton" Engine-Front View.

DESCRIPTION OF 4 H. P.—This engine is designed to give the most power possible for the steam generated. Has plain side valves, (which are the very "Heart" of a Steam Engine,) designed to cut off at the proper place and use the steam expansively. The steam cannot blow out through the valves as some do. Regular locomotive style of link and valve. Mechanism simple and reliable. See next page also.

We now furnish this engine with Baianced Cranks and Bronze Bearing.

We now furnish this engine with Baianced Cranks and Bronze Bearing.

Frame, rigidly braced; flat adjustable Guides for Cross Heads; Crank Axle, one piece of steel; bronze Cross Head. Main Connecting Rods, steel; all Bearings, Gun Metal, removable and adjustable. All boits provided with lock nuts and cotter pins. Sprocket wheel, 12 teeth for standard 8-8 inch chain, I inch pitch. (Can change to suit.)

A SECTION OF THE RESIDENCE OF THE PARTY OF T		AND THE RESERVE OF THE CASE OF		PROF T TARGET
No. 4 Engine, 4 to 8 H.	P. 242 in. bore, 34	in. stroke, 22 in. his	th, lote in wide,	, 5 in. deep, \$100
No. 6 " 6 to 8 "	8 . 209	11 22 .1	11 "	8 " 135
No. 8 " 8 to 12 "	3 ** 41/4	** 24 **	Dia "	81/2 " 190
No. 12 " 12 to 16 "	4 11 41/2	" 24 "	12 "	81/2 " 250
Above prices do n	ot include Pump. J.	lowing prices, extra:	ase, which will be	
Force Pump, driven fro	m Cross Head for	Nos. 4 and 6 Engli	e, extra	\$ 8.00
Asbestos Jacket for cyll	nders, extra	-		5.00
Dust Proof Metal Casing		Engine, extra		17.00
of a larger of the	" Sand	12 "	*****	20.00





DAYTON COMPLETE BURNER, GENERATOR, PILOT LIGHT AND REGULATOR

PRICE COMPLETE

14	in.	Burner	with	Generato	rand	Regulator	complete	\$40
18	in.	- 44	10 W X 2 C	STATE OF THE PARTY	8.6	A STATE OF THE PARTY OF THE PAR	SOUTH PROPERTY.	50
	in.	11		46	6.6	14	(00)	60
	in.	AK TO		- 11		44	11/100	75
730	TOTAL S	14 11	n. stre	will fit 8	tanda	rd Locomo	bile.	



"THE DAYTON" BURNER



"THE DAYTON" BURNER. (Patent applied for.)

Burner consists of a one-piece casting that cannot warp, or leak or be flooded. Gas passages are narrow circular openings which will not clog and which produce solid blue flames, thus securing maximum capacity. This burner can be quickly and thoroughly cleaned and is practically indistructible.

The Rim for attaching burner to boiler is made of cast-iron, top and bottom are faced off and provided with packing grooves filled with asbestos packing, thus effectually excluding the air. The Rim is fastened permanently to the boiler by screws and the burner is fastened to the rim by wing nuts, so it can be quickly detached for cleaning when necessary.

The pilot house contains the generator and pilot light which are instantly accessible and thoroughly protected. Pilot light burns all the time; main fire controlled by one fire from driver's seat. Automatic Gasoline Regulator automatically regulates flow of gasoline so as to maintain regular pressure of steam. Everything necessary for safe, quick, clean and effective service.

Cast Iron Burner Base only 14 inch.

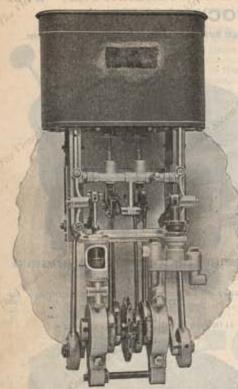
each \$22.00 30.00 Cast Iron Burner Base only 14 inch. 20 Inch

The Generator and Pilot Lightare placed within the pilot house, which thoroughly protects them from wind and weather, and at the same time renders large mica covered peephole, through which the pilot light can be observed.

The pilot house with its contents, is secured to the rim connecting the boiler and burner by means of a segment and sleeve shown at "A." This segment is made of proper curve to fit the rim to which it is fastened, and the cylinder "B" which encloses the generating or vaporizing coil, and the segment is made of proper curve to fit the rim to which it is fastened, and the cylinder "B" which encloses the generating or vaporizing coil, and the segment is made of proper curve to fit the rim to which it is fastened, and the cylinder "B" which encloses the generating or vaporizing coil, and the segment is made of proper curve to fit the rim to which it is fastened, and the cylinder "B" which encloses the generating or vaporizing coil, and the segment is made of proper curve to fit the rim to which the segment is fastened in the cylinder "B" which encloses the generating or vaporizing coil, and the cylinder "B" which encloses the generating or vaporizing coil, and the cylinder "B" which encloses the generating or vaporizing coil, and the cylinder "B" which encloses the generating or vaporizing coil, and the cylinder "B" which encloses the generating or vaporizing coil, and the cylinder "B" which encloses the generating or vaporizing coil, and the cylinder "B" which encloses the generating or vaporizing coil, and the cylinder "B" which encloses the generating or vaporizing coil, and the cylinder "B" which encloses the generating or vaporizing coil, and the cylinder "B" which encloses the generating or vaporizing coil, and the cylinder "B" which encloses the generating or vaporizing coil, and the cylinder "B" which encloses the generating or vaporizing coil, and the cylinder "B" which encloses the generating or vaporizing coil, and the cylinder "B" which encloses the generating or vaporizing coil, and

THE AJAX STEAM ENGINES.

A FULL LINE IN ST



THE ABOVE PRICES INCLUDE PUMP.

The 5 H. P. Engine has cylinders $2\% \times 3\%$ in., all its working parts are made of dropped forged steel, case hardened. The crank shaft, crank pins and eccentrics have ball bearings and run absolutely smooth. The balls on the crank shaft are % in., on the crank pins % in., and on the eccentric % in. The piston rods and valve stems are made of Tobin Bronze, which has besides being rust proof, the tensile strength of mild steel. The engine is fitted with a 12 tooth sprocket, 1 in. pitch for % in. block chain. The wrist pins are hardened and then ground to a perfect fit, and are always interchangeable. The cross head end of connecting rod has hardened steel bushing, ground to a bearing which can be very easily replaced if necessary. The 10 H. P. Engine has cylinders $3\% \times 4$ in. It has % in. balls on erank shaft, % in. balls on crank pins, and % in. balls on eccentrics. This engine is fitted with 15 tooth sprocket, $\{\}$ in. pitch for % in. roller chain.

These engines we recommend to the trade as being the finest type introduced for automobile purposes. They have proved themselves a pronounced success, having maintained a speed of 1.15 in the recent eastern trial races, the fastest time ever made by a steam motor car, and came through without a flaw or strain.

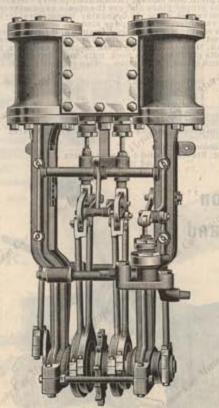
We can equip these engines with gasoline or fuel pump at an additional charge of \$10.00 each.

THE "STANDARD" STEAM AUTO ENGINE.

Especially adapted for the popular Runabout or Surrey type of Steam Carriage used on No. 1S and 2S Steam Outfits. Ball Bearing.

Direction .- 21/2 inch x 31/2 inch cylinders, developing 41/2 H. P., made of best quality grey cast iron. The frame made wholly of composition gun metal. The connecting rods are steel made from drop forgings; the boxes are of bronze. Has V-shaped double slides each side of the crossheads. The two main bearings are wide and heavy, being 11/2 inches in breadth each side of the sprocket where the strain of the entire running gear of the carriage is encountered. The valves are fitted by being scraped to their seats and warranted to be tight. They are set to cut-off so as to use steam expansively. The pistons have double rings pinned in their places and are warrranted to be tight. Packing boxes contain glands and the nuts are held by steel springs so as not to change their position. The small bearings and steel pins are hardened so as to secure the longest possible period of endurance and life to the bearings. The cylinders are provided with heavy asbestos jackets covered with cloth and painted. The engine is also provided with oil pockets which are very essential in a plain bearing engine running at high speed. Equipped with 1/8 inch sprockets. Weight 40 pounds.

PRICE \$93.50



Thoroughly Reliable.

Mechanism
Simple
and
Serviceable.

Regular Locomotive Style of Link and Valve.

COMPLETE SET OF CASTINGS OF STEAM ENGINES.

We will furnish the following parts at prices named Complete set of Castings for No. 18 Steam Engine as follows:

Cylinders and steam chest with caps, covers and valves, 2 frames, 2 frame caps, 2 main rods, 4 eccentrics, 4 eccentric straps, 2 links, 2 rocker arm, 2 eccentric links, 1 valve stem guide and 2 cross heads, with blue print, \$25.00. Boring Cylinders and facing valves for same, \$16.00. Crank Axle (rough) for same, \$7.00. Turning and quartering crank axle for same, \$16.00.

Dayton Automatic Fuel Regulator—New Type.

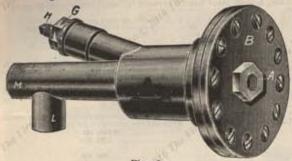


Fig. 1.

DESCRIPTION.

"The Dayton" Automatic Gasoline Regulator, herewith illustrated, is made in two styles as shown. In Fig. 1 the fuel is admitted at M and is discharged at L, and is controlled by a needle valve on the inside. Fig. 2 is the style used with the "Dayton" Generator in which the end of the Regulator (K) screwsinto the Pilot House within which the valve controlling the fuel is placed; in all other respects the construction of both is the same.

The head B is composed of two brass discs turned true and fastened together by accurately fitted steel screws, thus insuring an absolutely tight joint. Between these two discs is placed a diaphragm made of the best spring metal. This head is screwed onto the body of the Regulator and can be removed for examining the spring and valve stem without disturbing the diaphragm.

The body E of the Regulator is made of brass and

The body E of the Regulator is made of brass and is bored out to receive a steel thimble in which the steel compression spring D is placed. This compression spring is confined beneath the button bead C in which the valve stem J terminates, and is compressed to the desired tension by the stud H which passes through the packing sland G. There is no packing around the valve stem J anywhere, consequently it is always free to move under the slightest change to pressure.

Unless otherwise instructed, we set the compression spring D so that combined with 40 pounds of air pressure in the gasoline tank it will balance a bolier pressure of 200 pounds per square inch, and every Regulator is subjected to a working test, and its accuracy proved before shipment.

OPERATION.

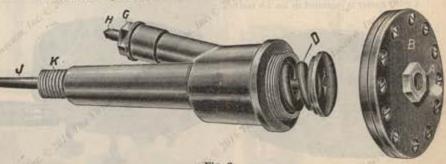
Connect the Regulator with the steam boiler at A and provide a valve in the steam pipe so the Regulator can be cut out at the will of the operator in case he desires temporarily to carry a higher steam pressure than the Regulator is set for. In connecting Fig. 2 with the fuel supply care must be taken to have the pressure from the gasoline tank enter the shank of the Regulator back of the needle valve, so it can pass through the channel occupied by the valve stem, and press against the diaphragm in the head. Fig. 1 is so constructed.

When the steam pressure in the boiler exceeds the amount for which the regulator is set, it overcomes the pressure exerted by the compres-

The engravings show the "The Dayton" Automatic Fuel Regulator in position. We regard it as indispensable to a first-class outfit, but it may be left off and the fire regulated by hand, if desired, or any other regulator may be substitued for it.

We claim for our New "Dayton" Regulator all the good points found in any of the other regulators of the same type now in use, and the following points of advantage over any other:

- 1. The "Dayton" is the only Gasoline Regulator the head of which is screwed onto the body, thus giving quick and easy access to the valve, valve stem, and tension spring, without taking apart the head or disturbing the diaphragm.
- 2. The "Dayton" is the only Gasoline Regulator of this type in which the valve stem is not surrounded by a packing gland, and is left perfectly free to respond to the slightest variation, and can therefore be depended upon to continuously maintain a uniform boller pressure.



sion spring and the gasoline or air pressure combined and presses the metal diaphragm against the button head C and its attached stem J, thus closing the needle valve and shutting off the fuel. As quick as the steam pressure in the boiler falls below the desired amount the above action is reversed, and the fuel turned on. As there is no packing or other frictional resistance to the free movement of the valve stem J, it follows that the regulator can and will automatically maintain the desired boiler pressure, a result, the importance of which will be appreciated by every intelligent user of a steam carriage, and which cannot be obtained with any regulator the valve stem of which passes through a packing gland.

ADVANTACES.

We claim for our New ''Dayton'' Regulator all the good points found in any of the other regulators of the same type now in use, and the fol-lowing points of advantage over any other:

lowing points of advantage over any other:

1. "The Dayton" is the only Gasoline Regulator the head of which is ser-ewed onto the body, thus giving quick and easy access to the valve, valve stem and tension spring, without taking apart the head or disturbing the diaphragm.

2. "The Dayton" is the only Gasoline Regulator of this type in which the valve stem is not surrounded by a packing gland and is left perfectly free to respond to the slightest variation, and can therefore be depended upon to continuously maintain a uniform boller pressure.

THE DAYTON REGULATOR, LIST PRICE, EACH \$6.00.

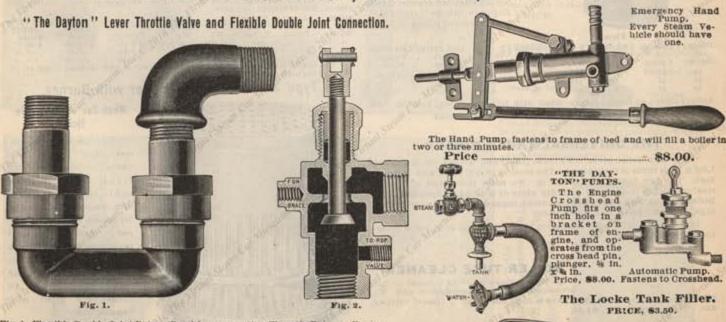


Fig. 1—Flexible Double Joint Return Bend for connecting Throttle Valve to Engine. Brass, & in., \$5.00. Brass, & in., \$6.50.

Fig. 2-"The Dayton" Lever Throttle Valve, Packing Gland Provided.

Brass, & in. \$3.00. Brass, & in., \$3.00. Brass, & in., \$3.50.

THE LOCKE \$6.00.



Throttle Valve and Flexible Double Joint Connection, like Fig. 1. 4: In., \$8.00. 4: in., \$10.00.

STEAM BOILERS FOR AUTOMOBILES.

OUR "STANDARD" STEAM BOILERS-Steel.



DESCRIPTION.—Steel shell 3-16 in. thick, no seam, expanded and spun in reamed holes (not punched).	3-15 in. steel heads, riveted in, steel tubes 1/2 in. 20 ga	uş
12x14, 240 ½ in. Flues, 29 Gauge \$ 68 00 14x12, 300 " 7, 00 14x14, 800 " " 78 00 16x12, 360 " " 85 00	16x14, 390 ½ In. Flues, 20 Gauge \$89 00 16x16, 390 "" " 150 00 18x14, 480 " " 140 00 18x16, 480 " " 150 00	

LARGER SIZES SPECIAL.

The above bollers are tested to 600 lbs. C. W., have fusible safety plugs and are fully guaranteed. If with copper tubes add 5c, list, per tube for 12 in.; 642c per tube, list, for 14 in., and 6c per tube, list, for 16 in lengths.

EXTRA TUBES. Steel Tubes, 12x20 in..... Copper Tubes, 12x20 in.

Steel Tubes, 4x20 In.
Copper Tubes, 1x20 in., flanged at one end.

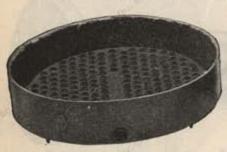
COPPER BOILERS.

Standard pattern. Made of seamless copper shell, heads and rings made of best grade of boiler steel 3-16 in. thick, securely riveted to shell in, x % in, rivets. Heads drilled and reamed for 300 % in. 20gauge copper tubes. Carefully wound with three layers of 20 gauge plano wire.

12x14 Price complete, with jacket and safety plug, 300 tubes.

EXTRA TUBE.

Tubes, ½x20 in., steel. Extra Tubes, ½x20 in., copper, flanged at one end. A 16x14 Boller is included in No. 1 8 Outfit. 80 09 A 16x16 Boller is included in No. 28 Outfit.





LOCKE.

The Locke Combination Burner, Generator and Regulator.

Comple	ete, as	show	n abov	e, 141	n	\$87	50
77		**			n		
""		15		18	in., choice		
01	Bug	or Kel	y Gene	rato	rs	48	00
Burner	rs only	, 18 in.			-		00
19	- 11	20 in			STATE OF THE PARTY	-	00
**	-44	22 in				1000	50
**	**	24 ln				1000	00

LOCKE.



FORGE BURNER.

The Universal Boiler.

This boiler is made of seam less, cold-drawn steel shell tested to 700 lbs. cold-water pressure. Material and workmanship guaranteed. This Boller is same as our Standard, excepting the shill extends sty inches below crown sheet, forming fire box. This is undoubtedly the finest Boiler on the market. Burner can be easily and quickly attached or detached. The following sizes are regular stock. Any size can be furnished at

16 "		150	**	******	
10	***************************************				36
	-			-	
	68				
				#	
			1	94	
	100	5,600			
		-			
		90			
	100			100	
			-		

14 inch

			lowest market prices:				
	Top	View.					
of Boller,	Length of Tubes.	No. of Half Tubes.	Total Wt.	Heating Surface, sq. ft.	Horse Power.	List Price Sterl Flues.	List Price Copper Flues.
14 16 19	13 18 18	809 439 576	117 148 170	43 60 88	3 8	\$78 00 80 00 114 00	\$90 00 87 50 128 C0

\$17.00

22 00 27 00

Bollers shown on this page are fitted with Hanging Irons, Fusible Plug. and tapped for Water and Steam Connections

THE UNIVERSAL TRUCK BOILER.

Our 24-inch Boiler gives 16 2-3 horse power and weighs 600 lbs. It has 1,000 %-inch tubes 18 inches long. The shell is of 5-16 stock and 20 inches high. The two heads are riveted in. We make this boiler with either steel or copper tubes, and with dry plate or without, as specified. This Boiler is fitted with heavy hanging irons, tapped for steam or water and highly tested. List Price, \$3.50 each.

Our 24-inch Boiler, with tubes 22 inches long, gives 20 horse power List price, \$3.00 each.

BOILER TUBE CLEANER.

All Boiler Flues must be cleaned of soot occasionally. Fits Locomobiles and Mo. biles and all steam autos that have & inch flues. No. 1. Heavy bristles. No. 2. Brass Wire, \$1.10.

BOILER COMPOUND.

Will remove all scale and grease from the boiler. One teaspoonful per week will keep a boiler which is used continuously free from scale.

Price, \$3.00 per quart.

THE DRY PLATE BOILER.



Diam. of Boiler.	Length of Tubes, 13 in.	No. of Half Tubes. 303 410	Total Wt. 112 lbs.	Heating Surface, sq. ft. 48 3-10	Horse Power, 3 6-10 4 9-10	List Price Steel Flues. \$ 78 00	Copper Flues. \$ 80 00
19 **	13 "	576	165 **	88	7 8-10	80 00 114 00	87 50 128 CO
The	above siz	es are i	regulars	tock, and	orders can	be filled	from stock.

Type X - Automobile Boiler with Burner.



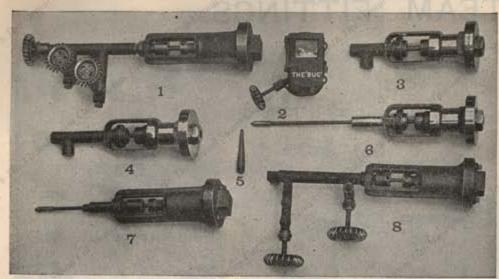
Which Can be Readily Detached.

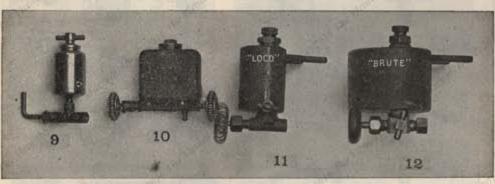
Bollers are made of seamless, Cold Drawn Steel Shells in the following sizes (inside measurement): 14, 16, 17, 19 and 20 inch diameter, and can be furnished with either copper or steel tubing, or if preferred, we can furnish without tubing, but with 42 inch holes drilled and reamed (64 threads). All boilers are fitted with hanging irons.

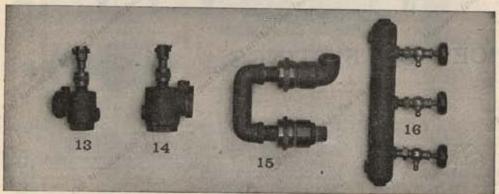
List price of Bollers with burners attached:

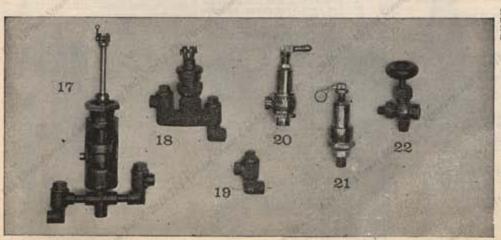
14 in, with 280 half-inch copper tubes \$125 0₀ 150 00 165 00

STEAM FITTINGS FOR PRICES SEE PAGE 48









PLEASE ORDER BY NUMBER AND PAGE.



The RELIANCE LOW WATER ALARM.

Safe, Sure, Successful.

Length, 74 inches Diameter, 24 Inches Weight, 4 pounds

Price, Low Water Alarm, 815 00

Price, Water Gauge, 81 50



ACME STEAM THROTTLE.

SAFE, ECONOMICAL AND DURABLE.

Warranted not to leak. Any amount of steam desired can be admitted to the engine, and valve will remain in any position without being held by operator.

PRICE.

THE CURTIS BOILER FEED REGULATOR.

Holds the level of the water in the boiler within one-quarter of an inch variation by controlling the suction, the by-pass, or the steam pipe of the pump.

PRICE.

OFELDT REGULATORS.

Have No Packing

Boxes to Leak

Patented 1901

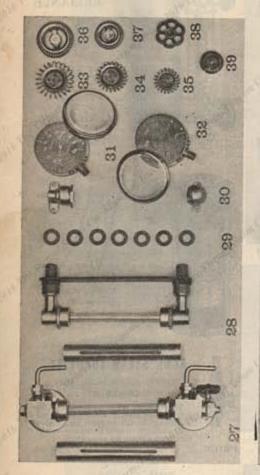
Weight,

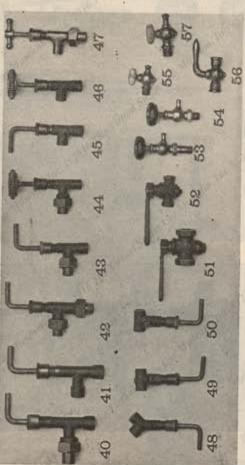
PRICE..... \$5.50 Most accurate fuel regulating device ever invented. Will positively regulate within two pounds. Diaphragm acts directly on fuel valve. SIMPLE and SENSITIVE. We guarantee satisfaction.

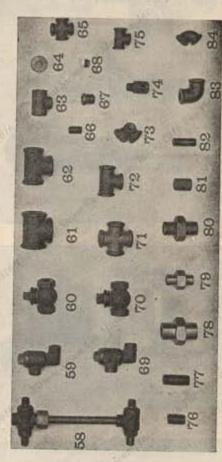
The Pinest Publication Out FULLY ILLUSTRATED OVER 600 Price, \$5.00 PAGES.



STEAM FITTINGS.







PRICES ON FITTINGS,

No.				200			
1.	Beats All Regulator and Jet Valves combined			No.	Carried and a second and the second		
2.	The Bur Generator	211	90	48.	Needle or Pin Valve, one union, to in	40.4	i
8.	Beats All Regulator, short nose	- 10	00	44.	Needle or Pin Valve, one union, with wire wheel handle	po es	i
4.	Beats All Regulator, long nose.	- 0	00	45.			
8.	Burner Jots		00	46+	Needle or Pin Valve, plain, with wire wheel handle	20	
8	Burner Jets each,	1	25	47.			ě
8.	Beats All Long Stem Generator each,	B (20				į
8.	Beats All Short Stem Generator	5 1	00	48.			
91	Beats All with Jet Valve combined. This style is adapted espe-			49.			•
9.			00	50.	Straight-way Pin Valve Brip, Win	70	
*0	Plain Blind Offer Condensed Cylinder Offer, improved, will feed an engine for 30 miles	1.7	75	51.	Steam Cock is in from handle	- 60	
10.	Condensed Cylinder Oller, improved, will feed an engine for 30	7000		62.	Steam Cock, & In., fron handle	- 80	
**			10	58.	Steam Cock, & in., fron handle	- 50	Ì
11.			12				á
12.	One rainous mente ther. Will fond an engine to myles	-		65			i
13.				16.	Air Cock, & in	40	į
14-				67.	Steam Gauge, female	1.65	i
15.				58.	Air Cock, ¼ in.	50	į
							ì
				60.	Check Valve, % in per pair, Check Valve, % in horizontal	50	
				60.	Check Valve, % in., horizontal.	50	0
16.							i
17.				62.	T. S in Reducing T. laxivy v in	25	٠.
18.			0				
19.			0				
	4 In. Check Valve.	. 5					
20.			9				
21.			0	68.	Plug, & in	09	
22.		2 0		69,	Check Valve, ¼ in Check Valve, ¼ in horizontal	50	
27.	Automatic Safety Glass Gauge, shuts off escape of steam when	8.5		70.	Check Valve, & in., horizontal	50	
	glass breaks.	No.					
291	Plain Glass Gauge	6.0		72.	T, ¼ in	20	
29.	Rubber Gauge Packing per doz.			78.	Three-way Elbow	50	
80.		4		74.	Boller Nipple	77	
-51	With glass, etc.	200		75.	T, % in	10	
81.		2.0		76.	Close Nipple, ¼ in	12	
				77. 1	Space Nipple, ¼ in	17	
				78.	Union & in	35	
28.	Iron Wheel	0 2		79. 1	Union, % in	25	
20.	Wood Wheel	1					
4D.	Needle or Pin Valva one union II in	- 01		81. (Coupling, % in	80	
41	Needle or Pin Valve, one union, & in	70				08	
		750				10	
	Needle or Pin Valve, two unions, & in	65	. 38	84. I	Elbow, ¼ in	122	
					A STATE OF THE PARTY OF THE PAR	10	

OUR Standard Injector. This INJECTOR has been used and tried for Autouse and found a complete and reliable botler feed. Made

of composition

is inch connection for steam. inch connection for water.

THE LOCKE AUTOMATIG

WATER LEVEL REGU-

Relieves the opera-

tor of the anxiety of

watching the mirror. and reduces the linbility of burning out the boiler. It is 4 in. wide, 9 inches high;

weight complete 9

Price, each __ \$14.00

SELF PACKING RINGS

88 50

throughout.

Price.

LATOR.

pounds.

STEAM CAR SUPPLIES AND SPECIALTIES.





SAFETY FUSIBLE PLUG.

ROLLER TURE EXPANDER

83.75.



\$15.00

Tapped 4 inch.



Moore Independent Autemobile Boiler Feed Pamp for Steam Vehicles. Single Plunger Air Pump. Single Plunger Beiler Feeder. Combination Air and Boller Feed GUARANTEED.

> AUTOMOSILE BOILER PUMP-Single. We want mist the Pump till the Bolls



List Price, \$20.

represents a single plunger steam numb.

team, 8-4 inch or 1-6 inch plunger, 11-d inch struge
upte. I have been beig.

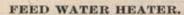
upte. I have been

is up, on the side, or right on. Water and advected to

PHELPS GASOLINE PUMP FOR AUTOMOBILES.



List Price, 825.





Not absolutely necessary but a great fuel saver, and makes steaming easter.

Price.

COMBINED BOILER and AIR PUMP.



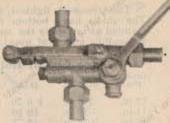
DIMENSIONS.

The mater pump is tested as to leaks, valves, and to rump less the own steads promotes.

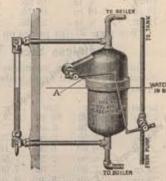
multi-be understand for action, only the anti-stand for the control of the control of fig. The air pump is more efficient when handling cold air; is fulfilling passes the six cylinder in beat, acress only be arranged if so dealerd by the end that either airy can be estimated by the operator strongs we consider ser can be estimated by the operator strongs we consider



List Price, \$21.



Our Standard Injector.



STEAM PACKING KIT, \$1.50.

No 1. Piston Rod Packing.
No 2. Valve Rod Packing.
No 3. Valve Steam Packing
(Steam).
No 4. Valve Steam Packing
(Gasoline).
No 5. Marvel Gauge Glass Packing

PRICE \$1.50 PER BOX.

PISTON AND VALVE ROD PACKING. Spiral Form, No. 1. Piston Rod Pack-No. 2. Valve Rod Pack-

1 lb. packages., \$5.55 per lb.

11b. package \$5.50 per lb.



No. 1 Piston Rod Packing, per

lb., 85.55. No. 1.

VALVE STEM PACKING. No. 3. List Price, per 1b. package, \$1.50

FORM.



RING FORM.

No. 2 Valve Rod Packing,

Per 1b., \$5.55.

Pop Safety Valve.

Style C can be regulated to blow off at at any pressure.

\$2.50.

Style D-With connection so that the steam can be discharged into muffler or water tank.

KITT'S LOW WATER ALARM.

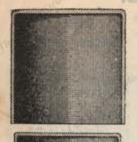
We use a solid gravity weight unaffected by steam pressure, and not a hollow ball float.

Alarm Is made of brass, weight 8 pounds, is 7 inches long by 4½ inches diameter and is tested with 300 pounds cold water pressure to square inch.

rice, Alarm complete, with whistles, tees, unions, cross, blow-off, valve and piping sufficient to attach to boiler,\$15.06

Notice-We do not furnish try cocks with this Alarm unless specially ordered.





STEEL BOILER SHELLS.

The strongest, lightest, neatest and best boiler shell in the world. The shells have bottom drawn with shell in one, and are recommended as not only the most popular (being used by nearly every automobile maker of note), but the best on the market for the purpose.

P	rice List	of Bo	ller She	ills and	Loose	Heads	
Internal	Thickness	7570		gth of she			Price of
Diam.	of Wall.	12 tn.	14 in.	16 In.	18 In.	20 in.	Loose Heads.
12 in.	.150 in.	\$ 8 70	\$ 9 15	\$ 9 90	\$10 80	812 00	\$2 10
14 in.	3-16 in.	10 80	10 95	12 00	12 60	13 20	2 85
16 in.	3-16 in.	12 75	13 35	13 80	14 25	14 85	4 05
16 in.	¼ in.	16 95	17 70	18 45	19.05	20 25	4 80
18 in.	3-16 in.	18 75	19 32	19 80	19 97	20 97	5 00
19 in.	¼ in.	23 25	24 25	24 97	26 30	27 75	5 90
See	page 37 for	r prices	on Boiler	Tubes.			

Seamless Steel Tanks for Gasoline, Etc.

These tanks are seamless throughout, heavily tinned inside and outside, and tested to an hydraulic pressure of over 300 pounds per square inch.

				THEFTH	an Duame	Ler.		
Length.	6 In.	7 in.	8 ln.	.9 in.	10 in.	12 ln.	14 In.	16 in.
12 in.	\$6 30	\$6 40	******	**********	Talleston .	**********		
15 in.	6 40	6 50	********	· markers!	-	Section.	-	150
18 in.	6 50	6 60	\$6 70	\$6 80	\$7.00	\$7 20		
20 in.	6 60	6 90	7 10	7 20	7 30	7 60		**********
22 in.	6 80	7 25	7 50	7 60	7 70	8 00		
24 in.	7 00	7 60	7 90	8 00	8 10	8 40	\$10 00	
28 in.	7.80	8.40	8 70	8 80	9 00	9 40	11 20	
30 in.	8 40	8 80	9 00	9 20	9 40	9 80	11 80	\$15 (0

The most popular sizes are 8 in., 10 in., 22 in., 24 in., 28 in.

Gasoline Tanks, generally 8 in. x 24.; Air Tanks, 9 in. x 15 in.

—1% in. Tap; Mufflers, 5 x 9—1% or 1 in. Tap.



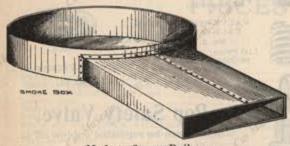
WATER TANKS.

This style Water Tank is supplied with our outfits on page 40. It not only economizes space and allows of greater capacity, but accommodates the boiler in the recessed part, thereby tending to heat the water before passing into the boiler.

WATER STORAGE TANKS.

Made to fit the body, as per illustration on page 40.									
Galvanized	Iron,	stre			0	ach,			ist.
* 1000	**	**	80x25x12			**	12		**
**	99	44	30x25x14			445	14	00	**

For Copper Tanks advance 40 per cent, list. The sizes are approximates only. We make these Tanks any size to fit inside the body,



Made to fit our Boilers.

rrice,	eacn.	14	m.	and	10. 111	QU.	
**	**	17	in.	to 20	in	8	50

BOILER JACKETS.

Made of galvanized Iron, 1 inch larger than the diameter of boiler to allow for asbestos packing, and projecting several inches top and bottom.

Each	- A	\$2	50

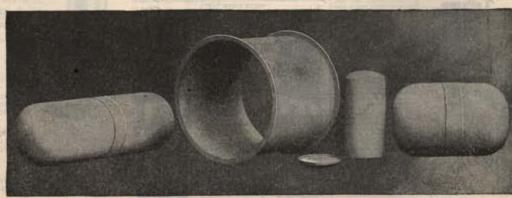


COPPER AIR AND GASOLINE TANKS.

Complete, with In and Out Openings.

7×12 1	nches	е	ach,	\$5.00
9x12	199		.44.7	5 50
9x24	44		H	7 50
6x24	100		n	6.00
9x28	0.0		66	8 00
8x25	**			7.50
9x12	89		**	7.00

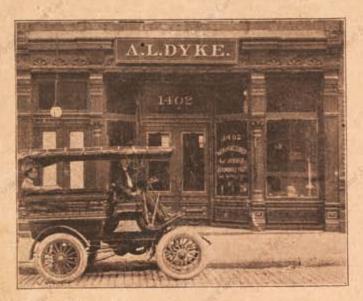
As we manufacture these Tanks, we can make them any size desired. The above conveying approximately the prices.

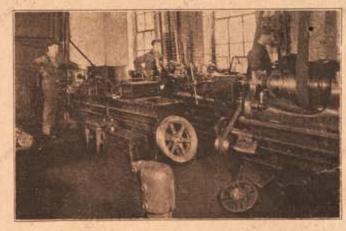


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A. L. DYKE, St. Louis.

DEAR Sig: -We have thoroughly examined and tested the 5 H. P. engine which I got from you recently. We find it first class, and it is without doubt the most perfectly constructed engine, we ever saw.

J. S. JOHNSON.

December: Western Every to and Machine Shore.

Proprietor Wankon Foundry and Machine Shops

Mr. Donald, Pres. of Chicago Auto Club, says: -

Auto Club, says:

The wheel steering device received premptly, and was readily adjusted to my machine and performs its functions accurately and most satisfactorily, etc.

Everything I have purchased from you has pleased me beyond expectation. I have a great auto-meditie and you can refer any-one to me you desire, etc.

STUART DARROW. OWEGO, N. Y.

The Carturetter works fine there shown it to gasoline engine experts, and they are well pleased. Enter my order for, etc. D. M. JONES,

MANITOU, COLO.

FLINT MICH, May 4, 1901.

MR A. L. DYKE, St. Lot. 15

DEAG SIR. — I write to say
that the Chutch No. 2, which I got
from you last January is unning
right along and works like a
laarm—no mishaps whatever, and
I am well pleased, etc. etc.

H. H. BARDWELL, M. D.

Office, 10.7 First Street

Office, 107 First Street.
Residence 715 Harrison Street.

Your No. 1 Outfit is superior to anything I have seen.

C. L. TURNER.

PEORIA HEIGHTS, ILL.

My machine made from your No. 1 Outfit is satisfactory have seen nothing for which I would exchange.

DR. P. J. POTHUISJE. REMINGTON, IND.

The No. 3 Outlit has been made up into an elegant Touring Car and is a fine machine will send you photo soot.

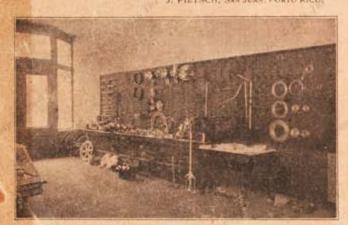
W. T. HARRINGTON St. Louis, Mich.

SARNIA, ONT., April 22, 1901.
A. L. DYKE, ESQ. St. Louis.
DEAK SIR:—I have tested the
Carburetter and find it most satisfactory. It does not require nearly
as much gasoline as others I have
used and does not corrode the
sparking plug, etc., etc.

I am truly yours. THOS. DOHERTY, (Doherty Mig., Co.)

The material received and find it entirely satisfactory.

J. PIETSCH, San Juan, Porto Rico,



We are just in receipt of material ordered by cablegram and find same entirely J. S. WHITE, CHELTENHAM, ENGLAND.

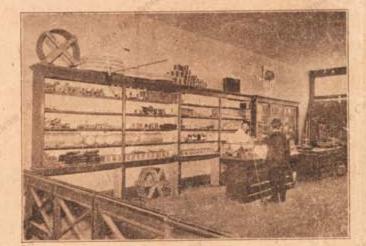
DEAR SIR: "Your favor at hand in regard to A. L. Dyke Outfit, which I have used all this season in all kinds of reads. It is a first-class machine in every respect, good hill climber and speedy on level roads, and at same time a very stylish rig. I have the No. I Outfit with S.H. P. Engine. I have found Mr. Dyke reliable and groups in dealings. I just got home from a trip with my auto, made about 300 miles and not a mishap, over a good many rough roads.

Yours truly,

Beaver Dam Cas and Gasoline Engine Works.

H. E. HASS, Mgr.

Beaver Dam Cas and Gasoline Engine Works.



MR. A. L. DYKE, St. Louis. FORT SMITH, ARK., Sept. 27, 1901.

DEAD SIR:—Please send me at once, 1 set rear bearings for No. 1 running gear. The 5 H. P. Engine which I purchased from you runs just fine. It is without a doubt the finest engine I ever saw, etc.

GUS BOEHMER, Automobiles, Bicycles, etc

MR. A. L. DYKE St. Louis. Spokane, Washington, October 5, 1901.

DEAR SIR:—Having used the Automobile purchased of you, for several weeks, I wish to express to you my perfect satisfaction with your way of doing business. The machine is exerything claimed for it, and I don't see how it can be improved very much. Now I would like prices on etc., etc. Very truly yours.

E. D. OLMSTED, M. D.

We Carry a Full Line of First Class 2nd Hand Automobiles. Edd TEE Didne Augut 30 SEND FOR BULLETIN.