

Catalogue No. 7.

1902.

General Illustrated Catalogue



A. L. DYKE,

MANUFACTURER AND JOBBER

AUTOMOBILE PARTS and 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.

INTRODUCTORY.



IN 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.

IMPORTANT.

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

We trust, therefore, that it will be carefully preserved for future reference, and that we may be favored frequently with orders.

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 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 checks 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.

REFERENCES.

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. HYDRO-CARBON.

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

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 ADVANTAGES OF GASOLINE AS A MOTIVE POWER.

- | | |
|--|---|
| First—It is absolutely safe. | Sixth—It is easier to operate. |
| Second—Its cost of operation is lower. | Seventh—It requires no technical knowledge. |
| Third—Its range of operation is greater. | Eighth—The fuel is obtainable everywhere. |
| Fourth—It requires less attention. | Ninth—It can be repaired at the roadside. |
| Fifth—It is more easily understood. | 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. **First**—It is absolutely safe. **Second**—Its cost of operation is lower. **Third**—Its range of operation is greater. **Fourth**—It requires less attention. **Fifth**—It is more easily understood. **Sixth**—It is easier to operate. **Seventh**—It requires no technical knowledge. **Eighth**—The fuel is obtainable everywhere. **Ninth**—It can be repaired at the roadside. **Tenth**—It can be sold at a popular price.

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**— $\frac{1}{2}$ cent per mile. **Carburettor**—Dyke's Float Feed Carburettor. 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 $\frac{1}{2}$ amperes. **Speed**—Variable up to 15 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 Carburettor. **Alarm**—Dyke's "Boo-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 15 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 DYKE

No. 0 or $3\frac{1}{2}$ -H.-P. ENGINE

USED ON AUTOMORETTE No. 0.

This Engine is rated from 4 to 5 Horse-Power by others.

Water Cooled Throughout.

36" Cylinder Head and Valves all in One Casting.



The above illustration shows Water-cooled $3\frac{1}{2}$ -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.

Strokes, 4 inches. Bore, 4 inches. Crank Case, 12 inches in diameter. Width, 5 inches. Height, 22 inches. Weight, 110 pounds. Engine Shaft, 1 1/2 inches in diameter. We leave shaft projection of 8 inches, or longer if desired.

The following Accessories are necessary to operate the Engine: Carburettor, 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

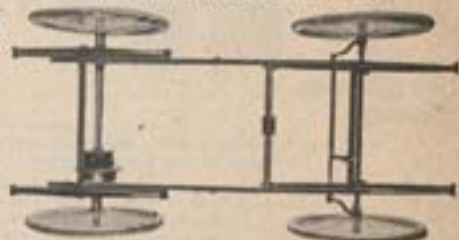
PRICE OF ENGINE, WITHOUT ACCESSORIES 140.00 List

DYKE'S
No. 0

FLEXIBLE
REACHLESS
RUNNING
GEAR



No. 0 RUNNING GEAR—SIDE VIEW.



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. 5 in. Wheel Base—60 in. to 72 in.

Wheels—28 inches, wire. Tires—28x2 inches.

Width between Angle Iron Frame on Top—22 inches.

Length of Angle Iron Frame—66 inches.

Rear Axle—1 1/2 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. 0 GEAR, COMPLETE, LESS TIRES \$120.00 List

SET 28x2 INCH PNEUMATIC TIRES 35.00 List

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 fast to the cap. The generator is constructed so it always keeps cool, and lamp burns so hours, giving a brilliant white light, making it extremely suitable for mining work.

Price \$3.50 each

Solar Launch Headlight



Is 10 1/2 inches high, similar in construction to the standard carriage lamp, with 3 1/2-inch front lens, white, and 5-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 especially 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

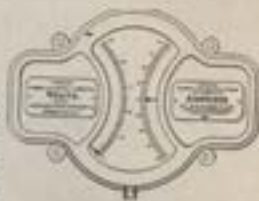
Solar Launch Lamp



Is 12 inches high, fitted with 3-inch white bull's eye lens, and 4 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

The only Safe
Lantern. No
oil, no smoke.
Gives twice the
light of an oil
lamp, and is pos-
sibly odorless
Efficient opera-
tion; no jarring
or blowing out.
Polished nickel.
PRICE, \$2.50 NET



Weston Volt Ammeters.

FOR ELECTRIC AUTOS.

10 Amp., 75 Volts	— \$35.00
25 " " 75 "	— 35.00
50 " " 75 "	— 35.00
100 " " 75 "	— 35.00

CARBIDE.

Calcium Carbide put up
in cans.

2-pound cans, each	— 80.20
2-pound cans, per case	— 7.68
5-pound cans, each	— 80
5-pound cans, per case	— 8.88
10-pound cans, each	— 1.40
100-pound casks, not crushed	— 11.00

40 per cent discount.



Shows Dyke's Hand Electric Light. Can be used with any style vehicle; throws light 100 feet; uses dry cells. Weighs but 18 ounces and is 6 1/2 x 1 1/2 inches in size. Can be carried in pocket. Convenient in time of break-down or accident at night, etc. each \$4.00



No. 9, Rigid Seat Bracket.

For Carriages and Automobiles. (Patented.) Either side. Fastened on the seat with screws under the cushion without detaching the paint or varnish. If the side of seat is solid wood it passes around at the front to the proper position outside. If an open rail it sets between the split slats directly to the proper position. Lamp removed and bracket remains unnoticeable. Price ———— \$1.00

Dyke's "Water Light."

A Device which should be used on all Steam Automobiles when driven after dark.

Includes three coils 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



KILFYRE.

Should be carried by every owner of a steam Auto. It is a powder put up in a neat tin case 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.



THE FAMOUS CALISBURY-OLERIOT ACETYLENE LAMP.

The style used on foreign machines. Extra large and powerful. Enables the earliest Automobiles to travel safely at the highest possible speed without the slightest danger of its being accidentally extinguished either by the heat of the elements or the vibration and jolting of the roughest roads. Price ———— each \$5.00

SMALL INCANDESCENT LAMP.

each
For Dyke's Hand-lamp, 80.00
For Dyke's Water-light, 60.00

IMPORTED FRENCH AUTOMOBILE HORNS.



No. 26. French Auto. Horn.

Number.	Total Length.	Diameter of Bell.	List Price Each.
26	12 inch	9 inch	\$12.00
26 b	12 "	8 1/2 "	10.75
26 a	12 "	8 "	9.50
26	11 "	7 1/2 "	8.25
26	10 "	7 "	7.00
26	9 "	6 1/2 "	5.75

LIST PRICES.

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. 26 is most popular style and is furnished in six sizes, as follows:



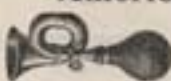
No. 25. French Adjustable Horn. Length 10 in. Diam. of Bell 8 in.

The latest French invention 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 in cut. Cut also shows wire nut for clamping bell 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, \$13 each. Fitted with Flexible Tubing, \$5.00 extra.

American Made Auto-horns.

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

List Price, \$4.00 each.



No. 1.

Diameter of horn bell, 2 1/2 inches, triple distributed size elbows.

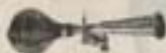
List Price, \$5.50 each.



No. 2.

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.



Straight Horn, No. 7.



No. 28. French Auto. Horn, with Flexible Metallic Tubing Attached.

This attachment to fit any of the above horns, \$4.00 extra.

This attachment to fit horns now in use at, \$3.00 each.

FOOT HORN.

PUMP and horn may be fastened underneath body of vehicle, and has sleeve which fits over passenger foot, thus allowing the foot board to be readily removed 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 two pounds, and all parts are of bronze and rust proof. It is finished in black enamel (boxed).



PATENTED

Type A.

Something New—Dyke's "See-See" China Tong. Two Distinct Different Tones.

Price, Type A, 4-inch	\$2.00
" " 3-inch	1.75
" " 2-inch	1.50



Type B.

Is designed for Motorcycles, Tricycles, etc. Price, \$2.25



CANVAS AUTO. BUCKET, WITHOUT SPOUT

Price, \$1.00

Price, \$1.50

Price, \$1.00

"ALL ABOUT

The Automobile."

600 Pages with nearly 500 Illustrations—A Fine Publication.

\$5.00.

WILLIAM PETER.

For Sale

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WILLIAM PETER.

AUTOMOBILE FENDERS.

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 cutting of long coats and ladies' gowns when entering the carriage. Still further, they add to the beauty and elegant appearance of any vehicle. Model 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



AUTOMOBILE FENDER.



WILLOW "CARRY-ALL" BASKETS.

No. 1, top length, 27 in., top width, 16 in. Price each \$4.00
No. 2, top length, 22 in., top width, 14 in., height, 1, 1/2 in. Price, ea. 3.00

ROUND CARRIAGE BASKETS.

No. 1—36x24 in.	\$4.50
No. 2—30x18 in.	2.67
No. 3—24x18 in.	2.00
No. 4—24x12 in.	2.33

These baskets are made of fine willow. Finishing for extra

TOPS AND CANOPIES.



Top for our Automobile (Early Model).

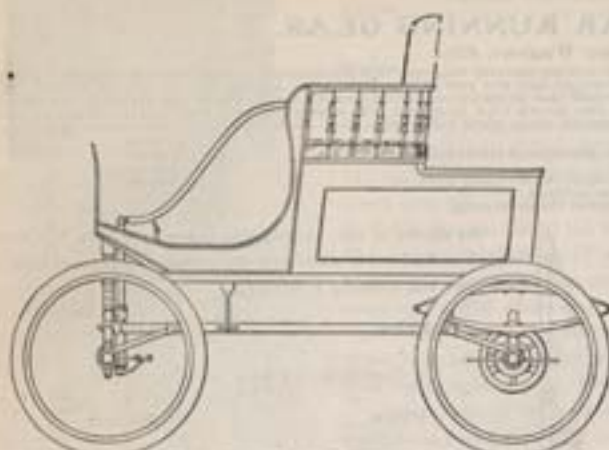
These tops are designed to fit your automobile. They consist of a strong canvas top, which can be raised or lowered at will. The sides are made of a heavy canvas, which can be raised or lowered at will. The top is made of a heavy canvas, which can be raised or lowered at will. The sides are made of a heavy canvas, which can be raised or lowered at will. The top is made of a heavy canvas, which can be raised or lowered at will. The sides are made of a heavy canvas, which can be raised or lowered at will.



Registers distance traveled. Rings small bell each mile. Keeps record for 1,000 miles and repeats. Price, with Bell Attachment \$5.00

VEEDER ODOMETER.

Price, complete, without attachment \$3.00
With Attachment \$5.00
In ordering give outside-out diameter of wheel which it will be operated from.

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 nickled, with double acting hand brake.
 Engine No. 18, page 44.
 Boiler 18x14, seamless steam shell and tubes with smoke dome attached.
 Burner 18 in., cast iron.
 Generator and Regulator, attached.
 Gauge, Steam, 300 lbs., nickled.
 Gauge, Air, 100 lbs., nickled.
 Auxiliary Hand Water Pump.
 Water Column, Safety Pin Valve Pattern.
 Pop Safety Valve.
 Throttle Valve and flexible connections. Pin Valves.
 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 1/2-inch, I. P. Copper Connecting Pipe.
 10 ft. 3/4-inch Baldwin Block Chain.
 Air Tank. Gasoline Tank. Supply Water Tank.
 Muffler Tank, copper.
 Set 28x2 1/2-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.....	\$550
Set of Full Working Drawings.....	Net 5
Side Steering Fittings, extra.....	" 5

We will supply Concord pattern wood wheels with 1 1/2" 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.)

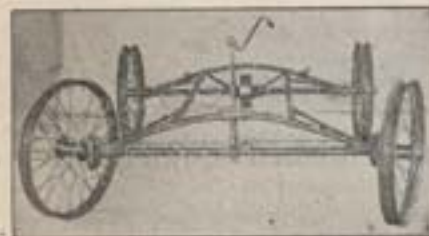
Same general outfit as described under No. 1, but surrey body and No. 28 Gear for four passengers. Engine, 18x16 boiler, 3/4 or 5/8-inch Baldwin Block Chain, 3-inch pneumatic tires, and fittings heavier in proportion to carry the extra weight.



PRICE , complete outfit.....	\$800
Price for full set of Working Drawings.....	Net 5

No. 1 S RUNNING GEAR.**SPECIFICATIONS**

Shelby seamless steel tubing, front and rear. Top tubes end reaches 1 1/2 in., lower tubes, front and rear, 1 1/2 in., 16 and 14 in. gauge respectively.
 Knuckles dropped forged screwed into threaded yokes with lock nut below.
 Differential Brown-Lips Spur pattern, model 6, any size sprocket to 36 teeth.
 Bearings dust proof 3/4 or 5/8 in. balls in front, 3/4 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-bubs 4 1/2 in. center to center of flanges, nickled, and forty 7/8 nickled Exelsior spokes.
 Rims. Electrically welded and paneled for 5 tire lugs.
 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 3/4 in bolt nut and spring cotter.

NOTE.—Each telescoped joint at end of each rod is provided with an oiling device.

Price , nickled only.....	\$110 00	Price , side steering fittings, extra net.....	\$ 5 00
" enameled and striping.....	9 00	" Bend Brake, single acting.....	9 00
" 1 1/2 in springs, oil tempered, per set of three.....	7 00	" " " double acting.....	12 00
" enameling springs and fittings to gear with spring clips.....	3 00	" with Sarven A Grade, wood wheels, painted to match gear and 1 1/2 in. solid rubber tires put on 35 00	

We can supply 1 1/2" or 1 3/4" 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.

No. 2 S TUBULAR RUNNING GEAR.

For No. 2 S Outfit, Four Passengers.

Same general specifications as Gear No. 18, except heavier throughout; Brown-Lipe Model One Differential; Kings, 2 1/2 in.; four Spring Blocks; Thread, 1/2 in. Prior, advance over Gear No. 18... \$125.00. We will supply American Roller Bearings in wood wheels on above gear. Prices on application. Differential will be placed on one side up to five inches from center if desired.

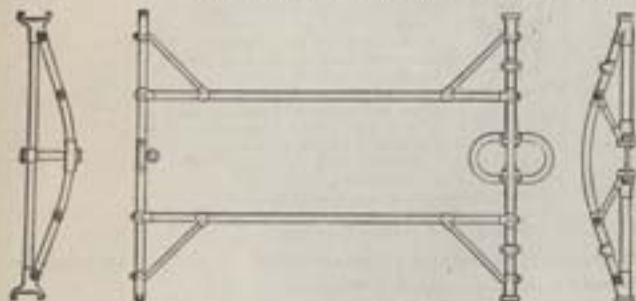
No. 3 S TUBULAR RUNNING GEAR.

For Delivery Wagons, Etc.

This Running Gear is built especially for heavy weight surrups, or medium delivery wagons. It is constructed for heavy gauge seamless tubing. The flexible features in rear rods, 3/4 in. balls in front knuckle and differential and the rear axle made of 1 1/2 in. special steel. Standard size 1 1/2 in. 40 lb. wheel base, but this will be changed without extra cost to 50 in. wheel base to match our delivery wagon body. The spores are Excelsior Needle Co., guaranteed to stand up under a weight of 2,000 lbs. Model One Brown-Lipe Spur Gear 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 unannealed. Choice of side or center steering fittings.

PRICE, with rims for 4-in. pneumatic tires	\$125.00
" " with Harven Wood Wheels and 1 1/2-in. guaranteed solid rubber tires	185.00
" " " Roller Bearings instead of Balls	185.00
" " " Harven Wood Wheels and 1 1/2 in. solid rubber tires	215.00

Differential will be placed on one side or center as ordered.
Plain bearings will be substituted for ball bearings at the same price.



As shown in cut, pinned and beaced ready to file and finish and all parts accurately machined and reamed ready for cups and steering knuckles.

Price _____ \$40.00.

1 Rear Axle, 2 Pieces, steel in rough.

Price _____ \$3.50.

Finished Rear Axle, with thread and key way cut.

Price _____ 80.00.

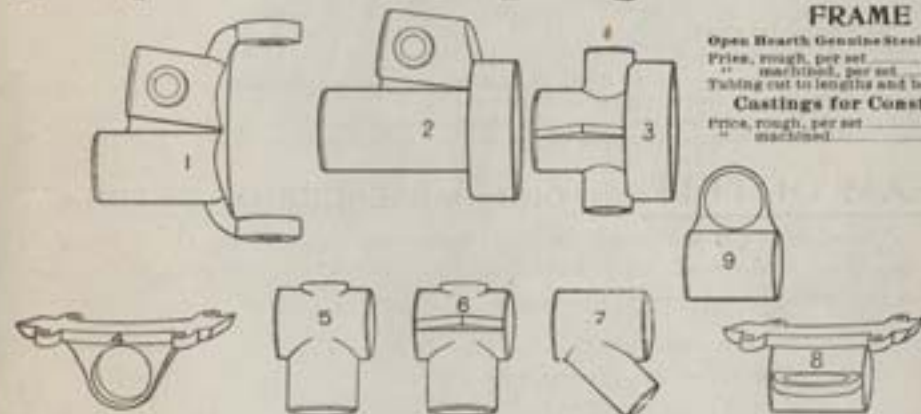
FRAME FITTINGS.

Open Hearth Genuine Steel Castings to Construct Gears 18.

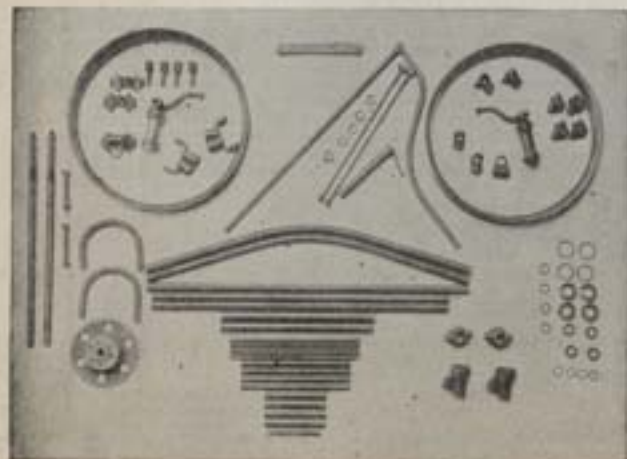
Price, rough, per set	\$ 2.00
" " machined, per set	15.00
Tubing cut to lengths and beac	9.00

Castings for Constructing No. 28 Gear.

Price, rough, per set	\$14.00
" " machined	22.00



2-CATH No. 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

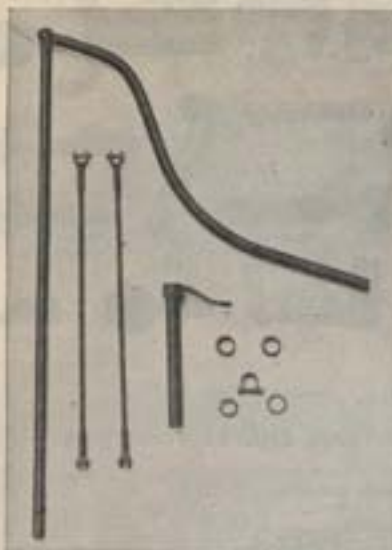
**No. 18****Semi Finished Combination.**

Cut shows our special set of Frame Fittings complete, ready for brazing; includes Ball Cups, Cones, Lock Nuts, Balls, Differential Steering Device, Rear 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

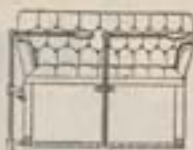
" " necessary parts nickoled and finished _____ 90.00

STEERING FITTINGS—Including Head Set, Nicked.

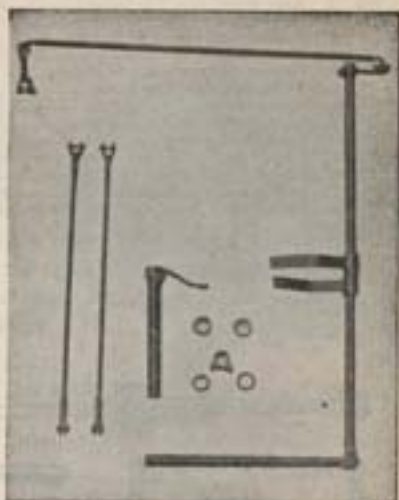


CENTER PATTERN.

Price, complete Set, center in black _____ \$6 00
 " " complete Set, nicked _____ 8 00

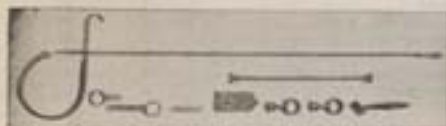


Above shows two methods of using the side steering device.

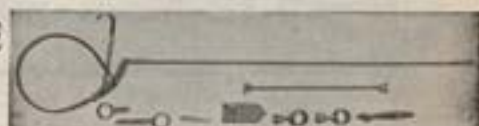


SIDE PATTERN.

Price, complete Set, side in black _____ \$12 00
 " " complete Set, side nicked _____ 15 00



BAND BRAKE FITTINGS



Price, as shown _____ SINGLE ACTING _____ per set, \$9 00

Price, as shown _____ DOUBLE ACTING _____ per set, \$14 00



Automobile Brakes and Breaks

The requirements of an Automobile Brake:

1. One that will stop the wheels of a vehicle instantly when necessary, or decrease the speed any amount desired.
2. One that can be operated effectively with little or no exertion.
3. One that will act equally 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 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 stopping. Simple in construction, compact and locks neat on any carriage. Made of the best material known, providing ample strength and wearing qualities. Easily applied to your carriage and does not over it in any way. Guaranteed. Finished in Black Enamel. \$10 00 Finished in Full Nickel Plate. \$13 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.

Finished in Black Enamel _____ \$ 5 00 _____ \$ 9 00 _____ \$10 00
 Finished in Full Nickel Plate _____ 10 00 _____ \$11 00 _____ \$12 00

FORGED FRAME FITTINGS

PRICE OF PARTS—ROUGH.

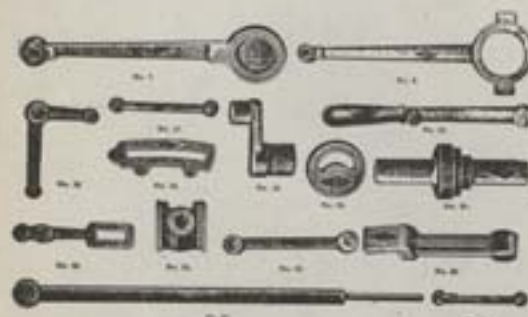
No. 1.	Rear wheel clip, 2 to frame.....	per pair,	\$1.80
" 2.	Driving gear clip, 2 to frame.....	"	1.50
" 3.	Front wheel clip, 2 to frame.....	"	2.50
" 4.	Reach clips, 4 to frame.....	"	.80
" 5.	Bottom spring clips, 4 to frame.....	"	2.80
" 6.	Front hub axle, 2 to frame.....	"	2.50
" 11.	Brake foot lever, 1 to frame.....	"	.25
" 12.	Short brake lever, 1 to frame.....	each,	.25
" 23.	Lower brake steering rod, 1 to frame.....	"	.65
" 24.	Upper bracket for steering rod, 1 to frame.....	"	.65
" 25.	Steering head stem, 1 to frame.....	"	.85
" 27.	Step brace, 2 to frame.....	per pair,	.65
" 29.	Upper reach brace clip, 4 to frame.....	per set,	1.30

When ordering parts, specify number as given above.

If machined, double list prices.

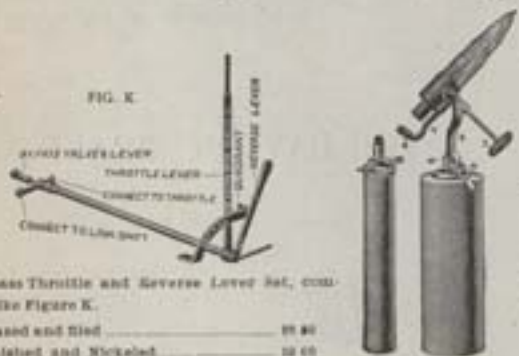
For the complete set, 27 pieces, machined, ready for use.

Price.....\$35.00



STEAM ENGINE FORGINGS.

No.		To each Engine	Each
7.	Connecting Rod.....	2	\$0.50
8.	Eccentric Rod.....	2	.50
16.	Ball Crank.....	1	.30
17.	Link Connecting Rod.....	2	.30
18.	Reverse Link.....	2	.30
19.	Engine Crank.....	2	.50
20.	Eccentric.....	4	.30
21.	Engine Crank Shaft.....	1	.60
22.	Pump Lever.....	1	.50
23.	Cross Head.....	2	.60
24.	Pump Connecting Rod.....	1	.30
25.	Reversing Lever.....	1	.40
26.	Throttle.....	1	.85
27.	Hand Pump Connecting Rod.....	1	.30
30.	Engine Support.....	2	.60



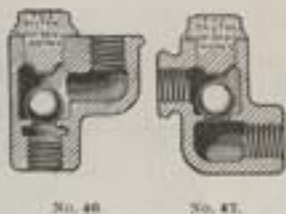
By-pass Throttle and Reverse Lever Set, complete like Figure K.

Bronzed and Nixed.....\$9.00
Finished and Nicked.....\$8.00

GASOLINE
POCKET
TORCH.

HEAVY NICKEL-PLATED
RESERVOIR

8 in. high.
1 1/2 in. diameter.
Price.....\$8.00



No. 46. Ball Checks
Vertical, 72c

No. 47. Ball Checks
Horizontal, 72c

THE NEW KELLY GENERATOR.
ENTIRELY NEW IN CONSTRUCTION.

No smoke, no flashing or fuming 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 outlet 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 flimsy 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.....\$85.00



No. 43.
CYLINDER LUBRICATOR CUP.
1/2 inch.....\$1.40



WATER GLASSES.

4 inch.....20c
12 inch.....35c

FIG. 2. 1/2 SIZE

Fig. 2—Automatic self-closing Water Gauge, particularly adapted for Automobiles. Complete with glass and shield, all highly polished in nickel.....\$3.00
FRAIN COCK, extra.....\$0.10

NEW TYPE DAYTON ENGINES, BURNERS, REGULATORS, GENERATORS, ETC.

WE CARRY A FULL LINE IN STOCK.

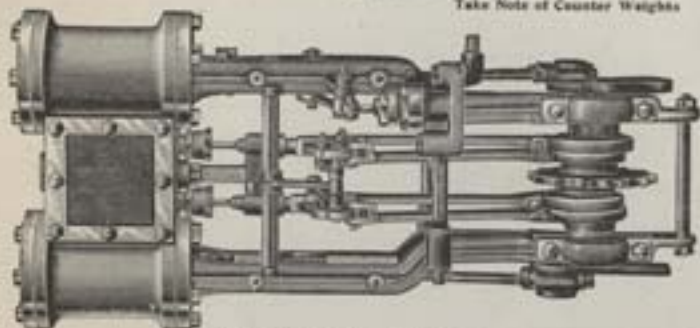
"THE DAYTON" AUTOMOBILE ENGINE—4 to 16 H. P.

Pilot Light Burns Constantly until Extinguished by the Operator.



SIDE VIEW

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 slide 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 Improved Cranks and Bronze Bearings. Frame, rigidly braced; flat adjustable saddles for Cross Heads; Crank Axis, one piece of steel; bronze Cross Head, Main Connecting Rods, steel; All Bearings, Gun Metal, removable and adjustable. All bolts provided with lock nuts and cotter pins. Sprocket wheel, 12 teeth for standard 3-4 inch chain, 1 inch pitch. (Can change to slit.)

No.	Engine, 4 to 6 H. P.	2 1/2 in. bore,	10 1/2 in. stroke,	21 in. high,	10 1/2 in. wide,	4 in. deep,	List Price
No. 4	"	2	"	22	"	4	125
No. 6	"	2 1/2	"	24	"	4 1/2	150
No. 8	"	3	"	26	"	5	175
No. 10	"	3 1/2	"	28	"	5 1/2	200
No. 12	"	4	"	30	"	6	225

Always prices do not include Pump, Jacket or Dust Proof Case, which will be furnished at the following prices, extra:

Force Pump, driven from Cross Head for Nos. 4 and 6 Engine, extra.	\$ 8.00
Asbestos Jacket for cylinders, extra.	12.00
Dust Proof Metal Casing, fits Nos. 4 and 6 Engine, extra.	17.00
	20.00

"The Dayton" Generator and Pilot Light.



These instantly accessible. The pilot house is a box shaped brass casting, which will not rust or corrode, and is provided with a hinged door, having a 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 gas strating or evaporating coil, and the initial burner or pilot light, passes through the sleeve "A," thus making a close telescopic adjustable fit. This sleeve connection permits the pilot and its house contents to be moved in or out, and also to be rotated as may be necessary to meet the requirements of each particular case.

This pilot house with its contents, will be sold separately if desired, and can be attached to any other make of burner, in which case these adjustable features will be appreciated.

Pilot House Generator and Gasoline Regulator 14 inch, each \$25; 16 inch \$35; 18 inch \$45; 20 inch \$55. If Gasoline Regulator is not wanted, deduct \$4.50 from prices.



DAYTON COMPLETE BURNER, GENERATOR, PILOT LIGHT AND REGULATOR.

PRICE COMPLETE

14 in. Burner with Generator and Regulator complete	\$40
16 in. " " " " " " " "	50
18 in. " " " " " " " "	60
20 in. " " " " " " " "	75

14 in. size will fit standard Locomotive.



"THE DAYTON" BURNER



RIM

"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 indestructible.

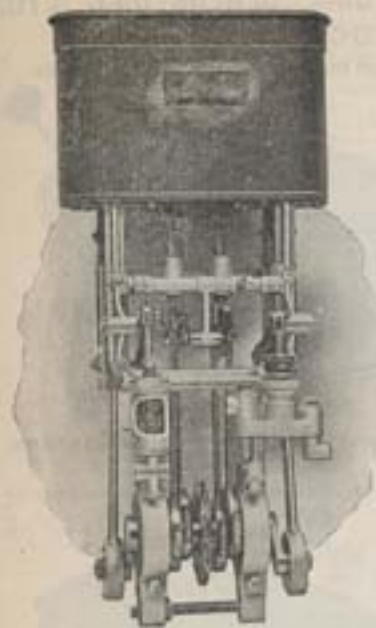
The Rim for attaching burner to boiler is made of cast-iron, top and bottom are faced off and provided with pecking grooves filled with asbestos packing, thus effectually excluding the air. The Rim is fastened permanently to the boiler by screws and the burner is fastened to the rim by wing nuts, so 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 gas 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	\$23.00
" " " " " " 16 inch	"	30.00
" " " " " " 18 inch	"	35.00
" " " " " " 20 inch	"	45.00

The Generator and Pilot Light are placed within the pilot house, which thoroughly protects them from wind and weather, and at the same time renders

THE AJAX STEAM ENGINES.



5 H. P.

Price _____ \$100.00

10 H. P.

Price _____ \$190.00

THE ABOVE PRICES INCLUDE PUMP.

The 5 H. P. Engine has cylinders $2\frac{1}{2} \times 3\frac{1}{4}$ 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 $\frac{3}{8}$ in., on the crank pins $\frac{1}{2}$ in., and on the eccentric $\frac{3}{4}$ 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 $\frac{3}{4}$ 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 $3\frac{1}{2} \times 4$ in. It has $\frac{3}{4}$ in. balls on crank shaft, $\frac{1}{2}$ in. balls on crank pins, and $\frac{3}{4}$ in. balls on eccentrics. This engine is fitted with 15 tooth sprocket, $\frac{1}{4}$ in. pitch for $\frac{3}{4}$ 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.

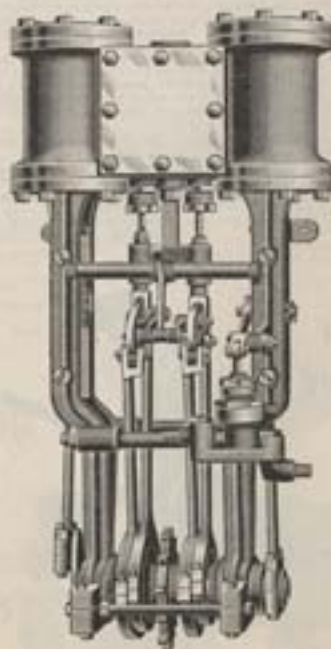
We can equip these engines with gasoline or fuel pump at an additional charge of \$10.00 each.

THE "STANDARD" STEAM AUTO ENGINE.

Especially adapted for the popular Runabout or Surrey type of Steam Carriage used on No. 15 and 25 Steam Outfits. Ball Bearing.

Direction.— $2\frac{1}{2}$ inch \times $3\frac{1}{4}$ inch cylinders, developing 4 $\frac{1}{2}$ 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 $1\frac{1}{4}$ 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 warranted 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 $\frac{1}{2}$ inch sprockets. Weight 40 pounds.

PRICE _____ \$03.50

Thoroughly
Reliable.Mechanism
Simple
and
Servicable.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, \$10.00. Crank Axle (rough) for same, \$7.00. Turning and quartering crank axle for same, \$10.00.

(c) 2014 The Virtual Steam Car Museum, Inc.

Dayton Automatic Fuel Regulator—New Type.

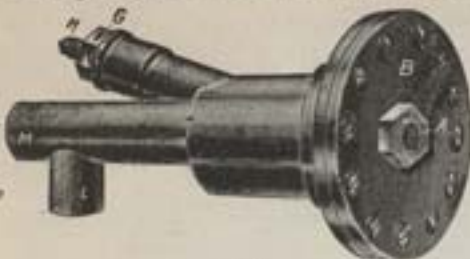


Fig. 1.

DESCRIPTION.

"The Dayton" Automatic Gasoline Regulator, heretofore illustrated, is made in two styles as shown. In Fig. 1 the fuel is admitted at H and is discharged at I, and is controlled by a needle valve on the inside. Fig. 2 is the style used with the "Dayton" diaphragm in which the end of the Regulator (K) screws into 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 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 head C in which the valve stem J terminates, and is compressed to the desired tension by the stud H which passes through the packing gland G. There is no packing around the valve stem J any where, consequently it is always free to move under the slightest change in pressure.

Unless otherwise instructed, we set the compression spring D so that combined with its power of air pressure in the gasoline tank it will balance a boiler 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 stem 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. 3 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 compression

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 substituted 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 boiler pressure.

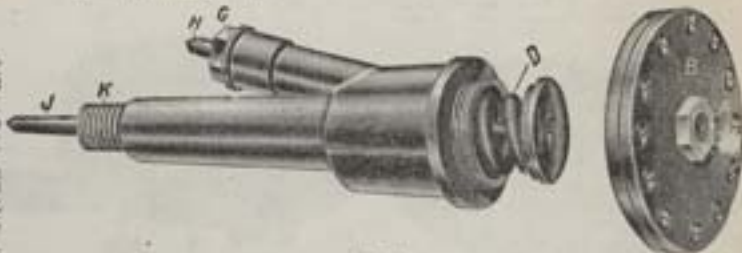


Fig. 2.

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 engine, and which cannot be obtained with any regulator the valve stem of which passes through a packing gland.

ADVANTAGES.

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 boiler pressure.

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

"The Dayton" Lever Throttle Valve and Flexible Double Joint Connection.

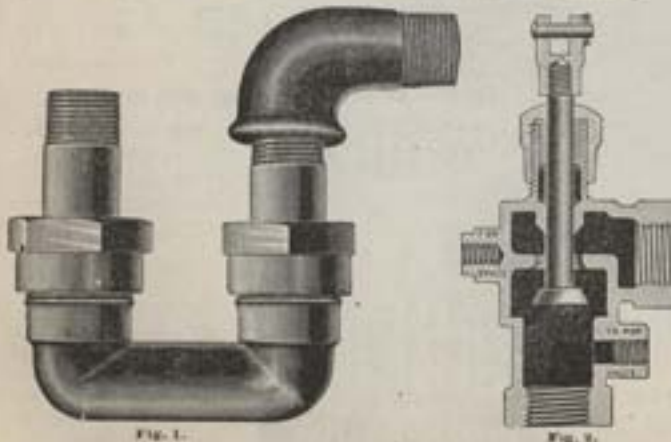


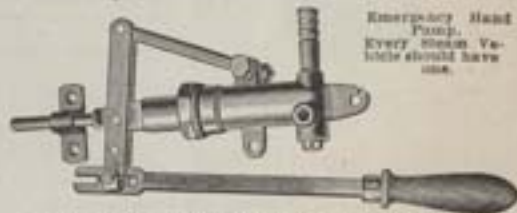
Fig. 1.

Fig. 2.

Fig. 1—Flexible Double Joint Return Bend for connecting Throttle Valve to Engine. Brass, 3/4 in., \$3.00. Brass, 1/2 in., \$2.50.

Fig. 2—"The Dayton" Lever Throttle Valve, Packing Gland Provided. Brass, 3/4 in., \$3.00. Brass, 1/2 in., \$2.50.

Throttle Valve and Flexible Double Joint Connection, like Fig. 1. 3/4 in., \$3.00. 1/2 in., \$2.50.



The Hand Pump fastens to frame of bed and will fill a boiler in two or three minutes.

Price

\$8.00.



"THE DAYTON" PUMPS.

The Engine Crosshead Pump fits one inch hole in a bracket on frame of engine, and operates from the cross head pin, plunger, 3/4 in., 1/2 in., 3/8 in., 1/4 in., 3/16 in., 1/8 in., 1/16 in.

The Lock Tank Filler. PRICE, \$3.00.

THE LOCKE PUMP. \$6.00.



STEAM BOILERS FOR AUTOMOBILES.

OUR "STANDARD" STEAM BOILERS—Steel.

DESCRIPTION.—Steel shell 3/16 in. thick, one seam, 8 in. steel heads, riveted in, steel tubes 1/2 in. 20 gauge expanded and spun in reamed holes (not punched).

12X14, 140 lb. Flues, 20 Gauge	\$ 60 00	12X14, 200 lb. Flues, 20 Gauge	\$ 80 00
12X14, 300 " " " "	75 00	12X14, 400 " " " "	90 00
12X14, 500 " " " "	90 00	12X14, 600 " " " "	105 00
12X14, 800 " " " "	120 00	12X14, 1000 " " " "	150 00

The above boilers are tested to 60 lbs. C. W., have fusible safety plugs and are fully guaranteed. If with copper tubes add 5c, list, per tube for 12 in., 60c per tube, list, for 14 in., and 80c per tube, list, for 16 in. lengths.

EXTRA TUBES.

Steel Tubes, 1/2X17 in.	price per foot, \$5 00
Copper Tubes, 1/2X20 in., flanged at one end	12

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 with 1/2 in. x 1/4 in. rivets. Heads drilled and reamed for 3/8 in. diameter copper tubes. Carefully wound with three layers of 20 gauge piano wire.

12X14 Flues complete, with jacket and safety plug, 20 Gauge. \$150 00

12X14 500 tubes

EXTRA TUBES.

Tubes, 1/2X20 in., steel	\$6 00
EXTRA Tubes, 1/2X20 in., copper, flanged at one end	12
A 12X14 Boiler is included in No. 2 & 3 Outfit.	



LOCKE.



LOCKE.

The Locke Combination Burner, Generator and Regulator.

Complete, as shown above, 14 in.	\$17 00
" " " " 20 in.	40 00
" " " " 18 in., 250 lbs.	
of Bug or Kelly Generators	40 00
Burners only, 20 in.	20 00
" " 20 in.	20 00
" " 22 in.	27 00
" " 24 in.	40 00



FORGE BURNER.

14 inch	116 Tubes	\$17 00
18 "	174 "	27 00
20 "	174 "	27 00



Top View.

Di- am.	Length	No. of of Boiler Tubes.	No. of Flues Total	Heating Surface, sq. ft.	Horse Power.	List Price Steel Flues.	List Price Copper Flues.
14	12	116	117	45	2 1/2	\$75 00	\$90 00
18	12	174	175	60	3	80 00	87 00
20	12	174	175	60	3	110 00	125 00

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

THE UNIVERSAL TRUCK BOILER.

Our 14-inch boiler gives 12-13 horse power and weighs 600 lbs. It has 1,800 1/2-inch tubes 18 inches long. The shell is of 3/16 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 18-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. This Locomobile and No. 1 boiler and all steam autos that have 1/2 inch flues. No. 1. Heavy bristles. Etc. No. 1. 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, \$2.00 per quart.

THE DRY PLATE BOILER.

The Advantages are as follows.—The dry plate between the flanges prevents foaming. It would be impossible for water to get into the steam space above the dry plate. All of the tubes pass through this plate. There are enough small holes through the plate to allow the steam generated to pass into steam space above it. This dry plate is placed above the water line. As we keep the water separated from the steam, by means of said plate, the tube service above the dry plate acts as a superheater; this is very desirable on steam carriages, for when superheated steam is used, there is very little fog visible at exhaust pipe from engine. Dry steam means great economy.

The shells are seamless and the heads are a part of the shell. There are no seams or rivets near the fire. There is but one seam, and this acts as an expansion joint. As the tubes in all internally fired boilers expand before the outer shell, this expansion joint takes care of the difference in expansion between the tubes and shell. This joint also strengthens the boiler.

The steam carriage boiler is the one to use as it gives absolutely dry steam, and is strong and safe.

Di- am.	Length	No. of of Boiler Tubes.	Total Heating Surface, sq. ft.	Horse Power.	List Price Steel Flues.	List Price Copper Flues.
14 in.	12 in.	116	45	2 1/2	\$75 00	\$90 00
18 "	12 "	174	60	3	80 00	87 00
20 "	12 "	174	60	3	110 00	125 00

The above sizes are regular stock, and orders can be filled from stock. We can furnish any size boiler wanted.

Type X—Automobile Boiler with Burner.

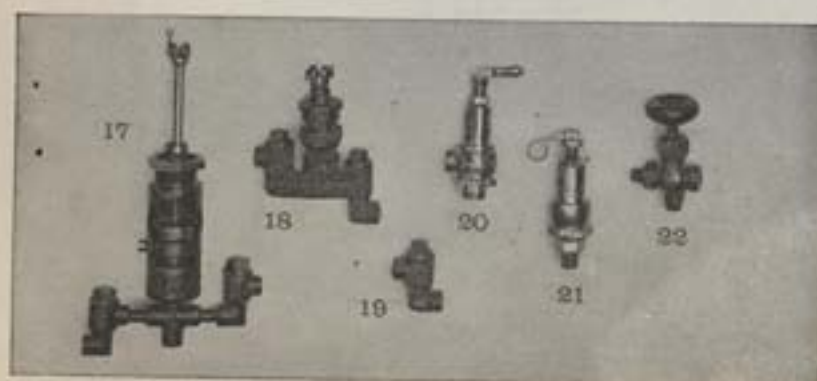
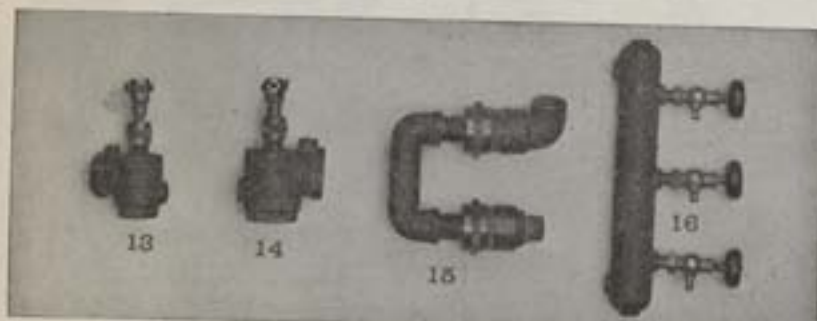
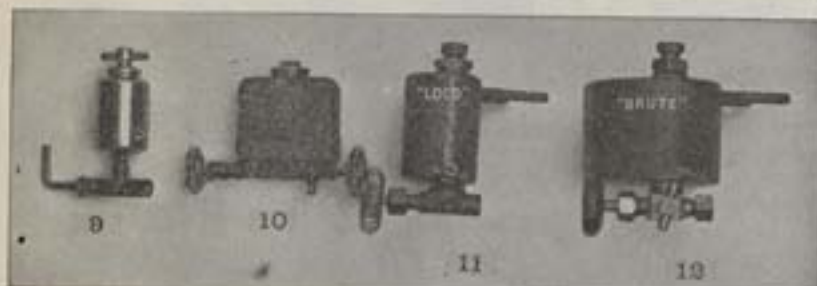
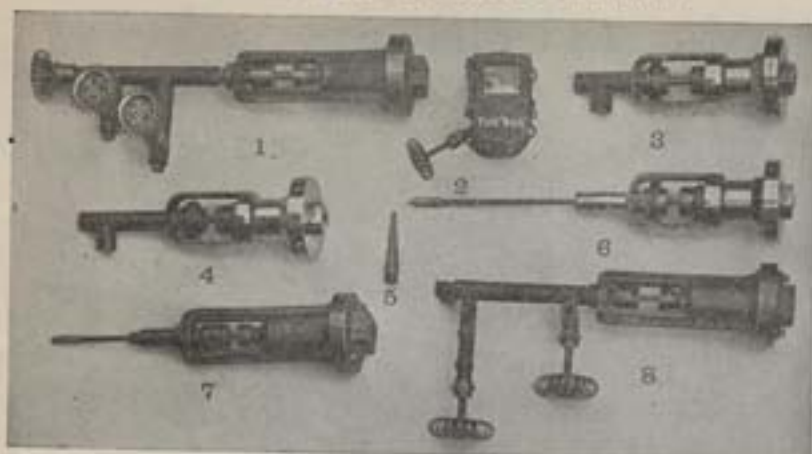
Which Can be Readily De-
tached.



Boilers are made of seamless, Cold Drawn Steel shells in the following sizes (inside measurement): 14, 18, 17, 20 and 22 inch diameter, and can be furnished with either copper or steel tubing, or if preferred, we can furnish without tubing, but with 1/2 inch holes drilled and reamed in threads. All boilers are fitted with hanging irons.

List price of Boilers with burners attached.

14 in., with 1/2 inch copper tubes	\$120 00
18 " " "	150 00
17 " " "	150 00
20 " " "	200 00
18 " " "	200 00
18 " " "	225 00

STEAM FITTINGSFOR PRICES
SEE PAGE 45

The
RELIANCE
LOW
WATER
ALARM.

Safe, Sure,
Successful.



Length, 7 1/2 inches
Diameter, 3 1/2 inches
Weight, 4 pounds

Price, Low Water
Alarm, \$15.00
Price, Water
Gauge, \$1.50

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 with-
out being held by operator.

PRICE \$6.50

**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

Does Not Leak

PRICE \$3.50

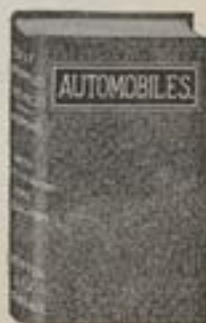
Patented 1904

Weight,

3 lbs.

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.

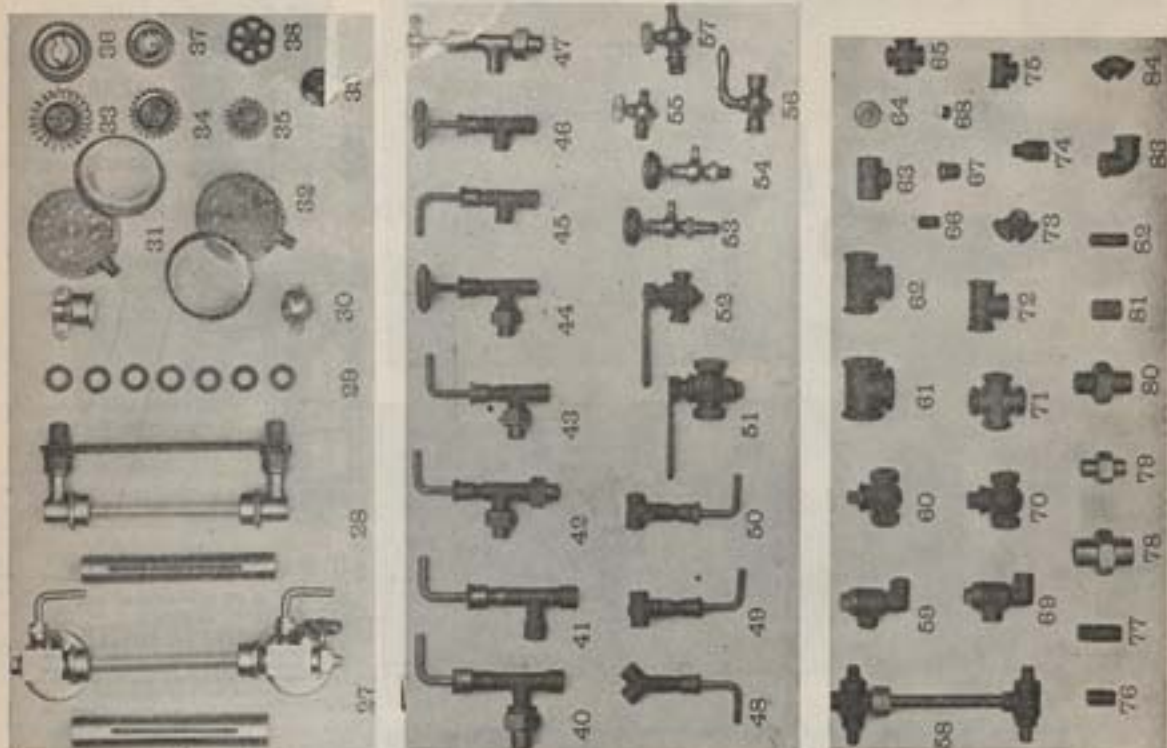
OVER 600 PAGES,
FULLY ILLUSTRATED
The Finest Publication Out
Price, \$5.00



PLEASE ORDER BY NUMBER AND PAGE.

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STEAM FITTINGS.



PRICES ON FITTINGS.

No.			No.		
1.	Beats All Regulator and Jet Valves combined	\$11.30	43.	Needle or Pin Valve, one union, 1/2 in.	\$9.40
2.	The Bug Generator	16.00	44.	Needle or Pin Valve, one union, with wire wheel handle	10.00
3.	Beats All Regulator, short nose	5.00	45.	Needle or Pin Valve, plain	10.00
4.	Beats All Regulator, long nose	5.00	46.	Needle or Pin Valve, plain, with wire wheel handle	10.00
5.	Burner Jets	each, .25	47.	Needle or Pin Valve, one union, designed for gasoline carriage, highly polished	1.50
6.	Beats All Long Steam Generator	4.00	48.	Y-shaped Pin Valve Trip, 1/2 in.	7.00
7.	Beats All Short Steam Generator	3.00	49.	Three-way Pin Valve Trip, 1/2 in.	7.00
8.	Beats All with Jet Valve combined. This style is adapted especially for Bug Generator and old ranch style	11.00	50.	Straight-way Pin Valve Trip, 1/2 in.	7.00
9.	Plain Steam Cyl.	1.75	51.	Steam Cock, 1/2 in., iron handle	4.00
10.	Condensed Cylinder Cyl., improved, will feed an engine for 30 miles	6.00	52.	Steam Co. E, 1/2 in., iron handle	4.00
11.	Low Cyl., holds enough to feed an engine for 30 miles	4.00	53.	Try Cock, long shank, trucked	4.00
12.	Jet Faucets Brute Cyl., will feed an engine 100 miles	7.00	54.	Try Cock, plain	4.00
13.	Throttle Valve, 1/2 inch, absolutely steam tight	2.00	55.	Air Cock, 1/2 in.	4.00
14.	Throttle Valve, 3/4 inch, absolutely steam tight	2.00	56.	Steam Gauge, female	10.00
15.	Throttle Valve and Flexible Swing Joint, 1/2 in.	4.50	57.	Air Cock, 3/4 in.	10.00
16.	Throttle Valve and Flexible Swing Joint, 3/4 in. swing joint, without throttle, 1/2 in.	4.50	58.	Cylinder Relief Valves	per pair, 1.50
17.	Water Column, complete, with nickel gauge cocks	4.00	59.	Check Valve, 1/2 in.	3.00
18.	Engine Cross-Head Fuel Pump	5.00	60.	Check Valve, 1/2 in., horizontal	3.00
19.	Engine Cross-Head Water Pump	5.00	61.	T, 1/2 in.	3.00
20.	1/2 in. Check Valve	1.00	62.	Inductive T, 1/2 x 1/2 in.	3.00
21.	Safety or Pop Valve, set at any pressure ordered	2.00	63.	Cross, 1/2 in.	3.00
22.	Safety Valve, plain tapped, for both 1/2 and 3/4 in. connections	2.00	64.	Cross Nipple, 1/2 in.	3.00
23.	Ranch Automatic Gauge Valves	3.00	65.	Inserting, 1/2 x 1/2 in.	3.00
24.	Automatic Safety Glass Gauge, shuts off escape of steam when glass breaks	8.00	66.	Plug, 1/2 in.	4.00
25.	Plain Glass Gauge	2.00	67.	Check Valve, 1/2 in.	3.00
26.	Rubber Gauge Packing	per doz. 40	68.	Check Valve, 1/2 in., horizontal	3.00
27.	Tank Gauge, 12 in., to show height of water in tank, complete, with glass, etc.	2.00	69.	Cross, 1/2 in.	3.00
28.	Air Gauge, 100 lb.	2.00	70.	T, 1/2 in.	3.00
29.	Steam Gauge, 100 lb.	2.00	71.	Three-way Elbow	3.00
30 to 32.	Wire Wheels	30	72.	Butter Nipple	3.00
33.	Iron Wheel	35	73.	T, 1/2 in.	3.00
34.	Wood Wheel	40	74.	Cross Nipple, 1/2 in.	3.00
35.	Needle or Pin Valve, one union, 1/2 in.	7.00	75.	Union, 1/2 in.	3.00
36.	Needle or Pin Valve, plain, 1/2 in.	7.00	76.	Union, 3/4 in.	3.00
37.	Needle or Pin Valve, two unions, 1/2 in.	7.00	77.	Union, 1/2 in.	3.00
			78.	Union, 3/4 in.	3.00
			79.	Union, 1/2 in.	3.00
			80.	Union, 3/4 in.	3.00
			81.	Coupling, 1/2 in.	3.00
			82.	Space Nipple, 1/2 in.	3.00
			83.	Space Nipple, 3/4 in.	3.00
			84.	Elbow, 1/2 in.	3.00
				Elbow, 3/4 in.	3.00

STEAM CAR SUPPLIES AND SPECIALTIES.



No. 1.
 Price, No. 1 \$1.00
 Price glass alone50
 Price No. 2—Double Mirror 2.75



No. 3.



Our Standard Injector.

OUR Standard Injector.

This INJECTOR has been used and tried for instance and found a complete and reliable boiler feed. Made of composition throughout.

1/2 inch connection for steam.

1/2 inch connection for water.

Price..... \$8.50



ROLLER TUBE EXPANDER..... \$3.75.

SAFETY FUSIBLE PLUG..... \$1.00

Tapped to inch.



PLUG

FLEXIBLE HOSE



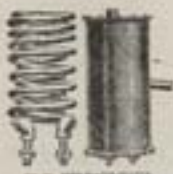
Three Gauges

No. 100. AUTOMOBILE PRESSURE GAUGE. No. 101. AUTOMOBILE OIL GAUGE. No. 102. AUTOMOBILE WATER GAUGE.



Pressure Gauge

FEED WATER HEATER.



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

Price..... \$15.00

CORNSHED BOILER and AIR PUMP.



List Price, \$25.
 As shown in the illustration the general design is made so as to be simple, sturdy, and to give the most efficient and reliable service obtainable with the least amount of material and weight.

Dimensions: 12 inch diameter of boiler, 12 inch high, 12 inch wide, 12 inch long.

Weight of boiler (without air pump)..... 12 lbs.
 Weight of boiler (with air pump)..... 25 lbs.

Price..... \$15.00

Best International Automobile Boiler Feed Pump for Small Vehicles. Single Pressure Air Pump. Single Pressure Boiler Feed. Guarantee for and Boiler Feed GUARANTEED.

AUTOMOBILE BOILER PUMP—Single.

It will work with the Pump for the Boiler Feed.



List Price, \$25.

The above is a simple, sturdy, and reliable pump. It is made of composition throughout. It is guaranteed for one year. It will work with the Pump for the Boiler Feed. It is guaranteed for one year.

PHILPS GASOLINE PUMP FOR AUTOMOBILES.

Results obtained in long service trials. This is the only pump of its kind that is guaranteed for one year. It is guaranteed for one year. It is guaranteed for one year.



The Philips Pumping System for Automobiles. This is the only pump of its kind that is guaranteed for one year. It is guaranteed for one year. It is guaranteed for one year.

List Price, \$25.



List Price, \$25.



THE LOCKE AUTOMATIC WATER LEVEL REGULATOR.

Believes the operator of the anxiety of watching the mirror, and reduces the liability of burning out the boiler. It is 4 in. wide, 3 inches high; weight complete 3 pounds.

Price, each..... \$14.00

STEAM PACKING KIT, \$1.50.

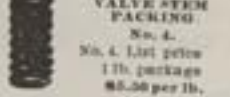
- No. 1. Piston Rod Packing.
- No. 2. Valve Rod Packing.
- No. 3. Valve Stem Packing.
- No. 4. Valve Stem Packing.
- No. 5. Marvel Gauge Glass Pack.

PRICE \$1.50 PER BOX.

PISTON AND VALVE ROD PACKING.

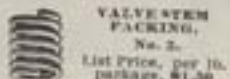
- No. 1. Piston Rod Packing.
- No. 2. Valve Rod Packing.
- No. 3. Valve Stem Packing.
- No. 4. Valve Stem Packing.

1 lb. packages, \$3.55 per lb.



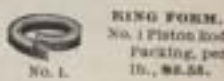
VALVE STEM PACKING.

- No. 4. List price 1 lb. package \$3.55 per lb.



VALVE STEM PACKING.

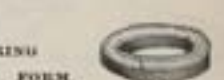
- No. 2. List Price, per lb. package, \$1.50



SELF PACKING RINGS

Size 1/2, 3/4, 1, 1 1/2, 2, 3, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100.

Price, each..... \$14.00



RING FORM.

No. 1 Piston Rod Packing, per lb., \$3.55.



RING FORM.

No. 2 Valve Rod Packing, per lb., \$3.55.

Pop Safety Valve.

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

\$2.50.

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

\$3.50.

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 3 pounds, is 1/2 inches long by 1/2 inches diameter and is tested with 800 pounds cold water pressure to square inch.

Price, Alarm complete, with whistler, lead, unions, cross, blow-off, valve and piping sufficient to attach to boiler, \$10.00

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 draws 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.

Price List of Boiler Shells and Loose Heads.

Internal Diam.	Thickness of Wall	Length of shell				Price of Loose Heads	
		12 in.	14 in.	16 in.	20 in.		
12 in.	.150 in.	\$ 8.70	\$ 9.15	\$ 9.90	\$10.80	\$12.00	\$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	13.60	14.25	14.85	4.05
16 in.	N 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.	N in.	23.25	24.25	24.97	26.30	27.75	5.90

See page 27 for 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.

Length.	Internal Diameter.							
	6 in.	7 in.	8 in.	9 in.	10 in.	12 in.	14 in.	16 in.
12 in.	\$6.30	\$6.40	—	—	—	—	—	—
15 in.	6.40	6.50	—	—	—	—	—	—
18 in.	6.50	6.60	\$6.70	\$6.80	\$7.00	\$7.20	—	—
20 in.	6.60	6.80	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	7.80	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	\$15.10

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. — 1/4 in. Tap; Mufflers, 5 x 9—N or I in. Tap.

WATER TANKS.

This style Water Tank is supplied with our outfit 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.

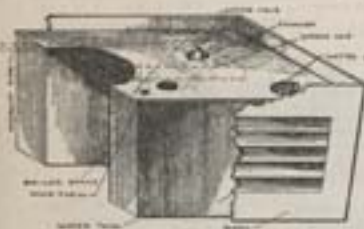
Made to fit the body, as per illustration on page 41.
Galvanized Iron, size 24x24x12 inches each, \$10.00 list.
" " " " 30x20x12 " " " 12.00 "
" " " " 30x24x14 " " " 14.00 "

For Copper Tanks advance 50 per cent. list. The steel are approximately only. We make these Tanks any size to fit inside the body.

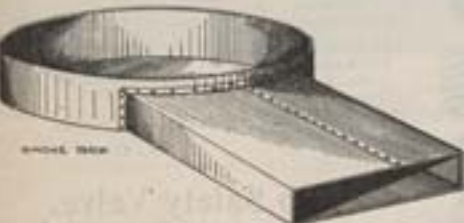
BOILER JACKETS.

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 \$2.50



Hoods and Smoke Domes.



Made to fit our Boilers.

Price, each, 14 in. and 16 in. \$6.50
" " 17 in. to 20 in. 8.00



COPPER AIR AND GASOLINE TANKS.

Complete, with In and Out Openings.

Size Inches	each, \$0.00
8x12	5.00
8x14	7.00
8x16	8.00
8x18	8.00
8x20	7.00
8x12	7.00

As we manufacture these Tanks, we can make them any size desired. The price covering approximately the same.

