

GROUPE



AUTOMOBILES

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Testing Yard

First Factory built in the United States especially for the manufacture of Automobiles. Built by Grout Brothers

GROUT BROS.

"New Home"

STEAM WAGONS

1901
PAN-AMERICAN EDITION

MANUFACTURED COMPLETE IN FACTORY OF
Grout Bros. Automobile Company
ORANGE, MASSACHUSETTS, U.S.A.

Explanatory



TEAM is our power, the only reliable power known for Automobiles. These wagons fill the desired demand for a vehicle of lightness, ease of operation, speed, economy and hill climbing. Very compact and durable, no noise, no odor nor vibration. We use only the best of material, and our workmanship is the best and guaranteed. We do not construct these parts and simply assemble them, but make every part in our own factory. The body contains the engine, boiler and tanks. We use no speed changing gear, but connect direct from engine to the compensating gear on rear axle, and the change of speed is accomplished by the throttle of the engine axle as a locomotive, the compensating gear allowing for the turning of corners.



Open Wagon - 1900

Engines. Double-acting link motion with plain ball bearings. Frame of phospho-bronze, gray iron cylinders. Other parts drop forgings and steel, very simple, anyone being able to put one together.

Boilers. Have 300 tubes, 45 square feet of heating surface, tested to 600 pounds, cold water pressure. Our running pressure is 450 pounds, supplied with safety valve set at 250 pounds. Steam gauge on dasher indicates the exact pressure in boiler. Water supplied to boiler by pump worked by engine and can be regulated by operator, keeping water at any desired height. These boilers are perfectly safe and can not explode.

Auxiliary Hand Pump. A very powerful hand pump is placed conveniently and will work against 125 pounds steam filling the boiler very quickly.



Burner. In starting our burner we have the simplest arrangement in existence. (No lenses to heat and connect to gasoline supply.) We simply light with match and go ahead. We have no trouble in fire blowing out; it is impossible with this arrangement. The fire is controlled from seat and will show you a great saving in fuel and water; also allows you to run steam to any desired pressure up to 250 pounds (which will blow the safety valve). Automatic arrangement if desired.

The vehicle may be left standing without attention for hours with the main burner out, and the pressure will keep where you left it and can relight burner without match from seat and start at once. This arrangement is worth the price of wagon and we are the originators of this device on which we have applied for patent. It lights burner when starting, keeps up steam while standing, keeps



The Standard Model

vaporizing iron box and relights fire after stalling, and when coasting hills will not allow the fire to blow out.

Water Gauge. Has hand valves, also check valve, and may be closed and respected when necessary to put in new glass, making it an easy operation on the road.

Water Column. Supplied when desired, though we do not recommend their use on these wagons.

Fuel. We use gasoline for fuel by vaporizing, and we make steam as fast as any possible way. The gasoline is fed to vaporizer by compressed air stored in tank, with gauge to indicate pressure.

Tanks. All tanks in carriage are of copper, water 21 and 26 gallons, gasoline 6½ and 8½ gallons. Water tank has partitions so the water can not splash about. It also has strainers. Screw tops to all tanks.



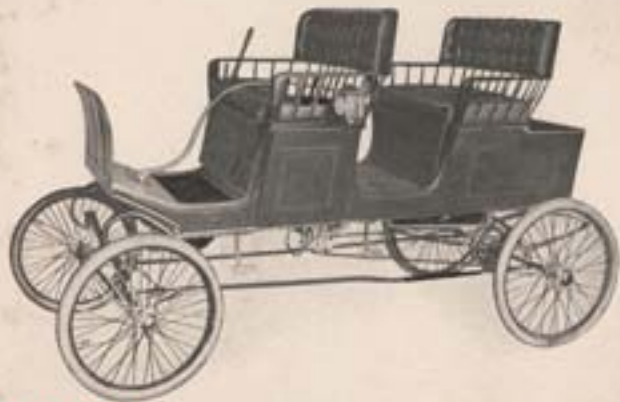
Light Delivery Wagon

Wheels are 28 and 30 inches by 2 1/2-inch tires, very long hubs and heavy spokes. Both are nicked and rims enameled. Any tire, wood wheels to order.

Frames are built of extra heavy tubing throughout and thoroughly braced, using drop forgings and steel castings.

Steerer is in center of wagon and so designed that there is not a particle of vibration. It has a 7-inch bearing and can be adjusted as to height and any angle. We find it far ahead of the side method. The objection to center steerer has been the vibration. To eliminate this the side steerer has been resorted to. It is not so convenient getting in or out nor to operate.

Upholstering is leather of the very best, as also the workmanship. Any color specified.



Finish is the best known to the carriage maker and we use the best of stock.

Supplied with hand pump, auxiliary throttle, 3-inch double bell, wrenches, oilers, extra chain links, screw drivers, gas pokers, side lamps and reflector to use water-gauge, and any extras that may be asked for at cost prices. We shall also add new features as they come about, and if you have anything you wish to know about pertaining to wagons, write us and we will give you full information as we intend to keep well informed and abreast with the times.

Hill Climbing. We will climb any hill that ever was climbed.

Speed. We will go as fast as any steam vehicle.



Special

Made to order by Springfield Fire Department, Springfield, Massachusetts

Our Experience. We built the first factory in the United States especially for the manufacture of Automobiles, which was 200 x 30 feet, two stories high. We experimented with gasoline or Hydro-Carbon, and built many of these wagons, but could not see in what respects they could be compared favorably with Steam. The engine can not be controlled as to speed without affecting their power. You are limited to a certain number of speeds, usually four, as the changing is done by means of clutches. It requires a man with a strong back to start one, and an expert to keep it going, while with steam anyone can learn in a few minutes how to handle a vehicle and can find four persons out of five who understand it thoroughly. It is used the world over. The electric carriage derives its power from steam originally except when water power is used.

We would be pleased to have you come to our factory and see the



Runs of Electric

material that enters into these machines, also we will be glad to demonstrate to you the superior efficiency of the "New Home" in hill climbing, speed, ease with which it is kept under the operator's perfect control at all times and its many other points of advantage. We have a corps of demonstrators at your service.

Terms are cash when the vehicles are delivered to Transportation Company. You may come here and inspect your vehicle if you choose and after satisfactory trial we shall expect you to pay cash. We ask for no money with order unless a special one. We guarantee these vehicles against faulty workmanship and material but do not assume responsibility in case of accident through no fault of the vehicle.

Our vehicle was awarded silver medal at Philadelphia Automobile and Cycle Show for being the best constructed steam vehicle.

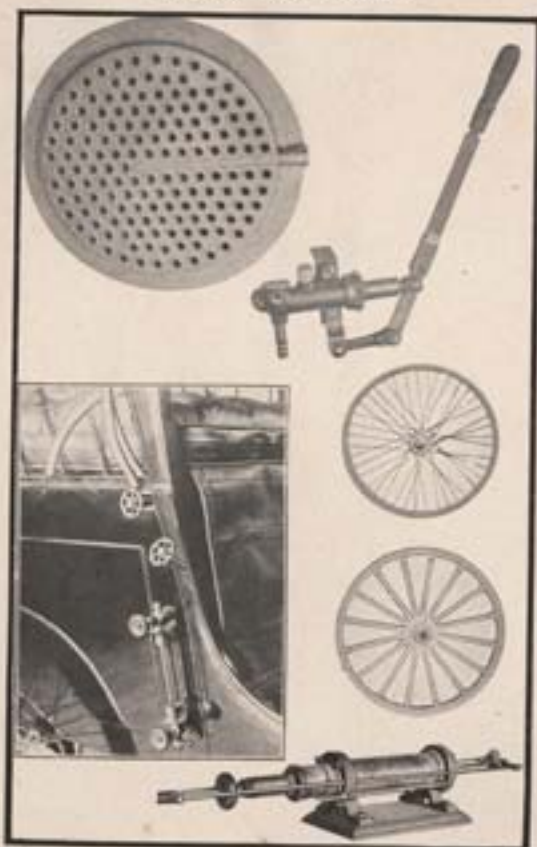


East Side Assembly Room



West Side Assembly Room

A FEW FEATURES



Burner
Hi-Pass
Fire Regulator
Water Gauge

Hand Pump
Wire Wheel
Wood Wheel
Pump

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These animals were used
until about the year 1901



THE PASSING OF THE HORSE

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GROUT



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