HORSELESS VEHICLES

AUTOMOBILES

MOTOR CYCLES

OPERATED BY

STEAM, HYDRO-CARBON, ELECTRIC AND
PNEUMATIC MOTORS

A PRACTICAL TREATISE FOR AUTOMOBILISTS, MANUFACTURERS, CAPITALISTS, INVESTORS AND EVERYONE
INTERESTED IN THE DEVELOPMENT, USE AND
CARE OF THE AUTOMOBILE

INCLUDING A SPECIAL CHAPTER ON HOW TO BUILD AN ELECTRIC CAB,
WITH DETAIL DRAWINGS

BY

GARDNER D. HISCOX, M.E.

AUTHOR OF
"GAS, GASOLINE AND OIL ENGINES"
AND
"MECHANICAL MOVEMENTS, POWERS, DEVICES AND APPLIANCES"

WITH 316 ILLUSTRATIONS

NEW YORK
MUNN & COMPANY
OFFICE OF THE SCIENTIFIC AMERICAN
361 BROADWAY
1900
VEHICLES OF THE DETROIT AUTOMOBILE COMPANY, DETROIT, MICH.

This company has brought out a line of gasoline motor vehicles that make a complete outfit for all the wants of automobile work for pleasure or business. Fig. 197 illustrates their Runabout.

The general outline and finish of all their vehicles are designed with similar parts and the running and motor gear are interchangeable on all the light carriages.

The touring cart is a convertible vehicle most desirable for its kind. In place of the rear box for parcels or hand grip, its removal gives place for a trunk, or a seat may take its place and you have a stylish dos-a-dos.

The suspension steel wheels and rubber tires are alike in all their carriages and the forward steering wheels are pivoted at the hubs.

Among the distinctive features of these vehicles are, the single lever which by a forward and backward movement through the space of about 12 inches, starts the engine, and controls the forward speeds and the backup, doing away with the confusion arising from a multiplication of levers.

The automatic feeding device gives perfect combustion at any speed, leaving no odor from unconsumed gases.

A perfectly balanced engine, with absolutely no vibration.

A device, actuated by a button under the foot, which controls the speed, which may be varied from a slow walk to about 40 miles per hour, for the pleasure vehicles.

An absolutely new sparking device, which is positive, never fails, and is practically indestructible.

Every part is encased and is dust and water proof.

No chains or belts of any kind, the driving gear being connected direct to the rear axle, through the compensating gear.

A flexible yet rigid frame.
Fig. 197. — The Runabout.

Fig. 198. — The Touring Cart
FIG. 199.—THE TOP PHAETON.

FIG. 200.—THE TRAP.
Fig. 201. — The Surrey.

Fig. 202. — The Delivery Wagon.
The style and finish of these vehicles are most acceptable to good taste in the purchasers of the automobile type of pleasure carriages.

The delivery wagon is built on the same lines as their other vehicles in motor and running gear, and is a light and quick moving vehicle for light trade.

The Detroit Automobile Company, Detroit, Mich., have finished their first motor delivery van, which is now undergoing tests for the collection of mails in that city. The wagon weighs about 1,200 lb., aluminium and gun metal having been liberally employed in its construction. The axles are of nickel steel. The company has several other styles in process of construction and expects to be turning out ten vehicles a week by the middle of April.