

### SCIENCE UP TO DATE.

SOME NICHER IN THE POST OF PROGRESS.

Another Self-Propelling Vehicle for Highway Travel—A Simple but Careful Construction—General Notes of Design in Industrial Fields.

THE LATEST AND most practical self-propelling vehicle yet produced in this country has been perfected at Springfield, Mass., after three years of experiment. This improved carriage is daily being run on the roads of Western Massachusetts. The total weight is 600 pounds. The wheels are self-propelled and run on ball bearings.

At least three wheels turn on their own axle, located in the hub, the axle being firmly held by the side bar. The lever in front, which controls the carriage, is the latest motion study and the vehicle, changes its rate of speed and also reverses its movement, driving it backward when desired. The wheels are all of one size, and are connected by a shaft, which can be broken down into three sections, and is placed under the seat. By pressing the shaft down, the carriage will start, or if running twelve miles an hour can be stopped within a distance of four feet.

The carriage will run from three to sixteen miles an hour, the normal rate being three and a half miles. The speed is controlled by the throttle, which is a simple affair, and the increase in speed is in the gear, which is altered by means of a sliding handle. The carriage will run on a greater speed than any other carriage of the kind, the throttle being at the front of the seat will increase the speed of the motor. The motor is of the simple type, and is driven by a battery of cells, which are recharged whenever possible, and otherwise metal accumulators are used, recharging when necessary.

The motor has a driving capacity of four-horse power and is what is usually termed a "power motor." It is compactly located in the front of the body, where it is protected and is an improved type of motor, and is recharged as to power required. Peculiar and ingenious devices are employed in the motor, which enable it to produce the power of a gas engine, with only a small quantity of gas, and only a small quantity of gas is required to produce the power of a gas engine in contact with the motor, which is producing an expansion of the air in the cylinder, which is always very much compressed by the action of the motor. The motor is of the simple type, and is driven by a battery of cells, which are recharged whenever possible, and otherwise metal accumulators are used, recharging when necessary.

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## WHEELS

IN HIS  
HEAD!

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## Farmers! Farmers! Farmers!

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