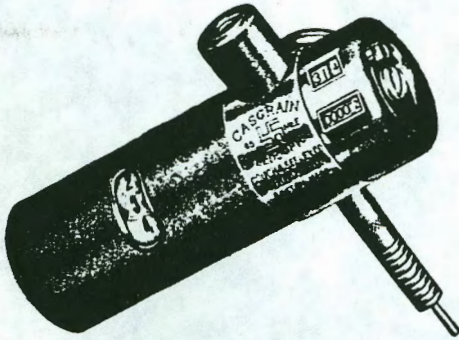


### THE "CASGRAIN" SPEEDOMETER

The cuts below show two views of the Casgrain speedometer, manufactured by the Couch & Seeley Company, 10 Thacher Street, Boston, Mass.

The Casgrain Speedometer combines in one instrument an odometer recording the miles and 1-10 mile traveled for each trip and season, and a speed indicator showing the rate at which the car is traveling in miles per hour. The trip odometer is quickly reset to 000.0 by means of resetting knob at end. The instrument is enclosed in a highly polished brass case.



The "Casgrain" Speedometer.

The speed dial is made of white pyralin with the figures in black. Under no condition can there be more than three of these figures seen at one time. An exceedingly important and desirable feature regarding this dial is, that it gives every mile in individual figures 5-16-inch high. By a cleverly arranged bit of mechanism the speed scale is arranged on a cylinder which has a scale reading distance of 28 inches.

A set of paddles are fitted to the inside of the scale drum which is fastened on one end to a compensating spring. The main shaft also has a set of paddles fixed on it



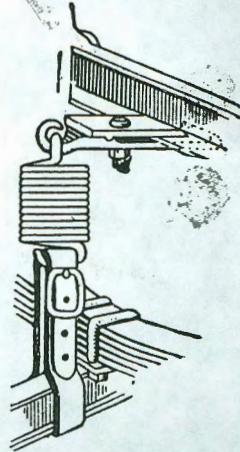
View of part of interior mechanism of "Casgrain" speedometer showing speed dial.

such a way as to rotate inside the scale drum. A quantity of liquid is confined within the space between the shaft and the drum with no chance of escape. The shaft revolving sets the liquid in motion which in turn causes a drag on the paddles fixed to the drum in exact proportion to the speed of the shaft.

The mile recorders work on the ordinary principle of gear transmission. The connection to the wheel gear is by means of flexible shafting and a universal joint. The price of this speedometer complete, is \$50.

### MESINGER BRINGS OUT A REBOUND CHECK STRAP

H. & F. Mesinger Mfg. Co., 1801 First Avenue, New York City, well-known makers of motorcycle and pedal cycle saddles, and other leather goods are now putting out a strap designed to check the rebound of automobile springs on automobiles. It is easily applied to any car.

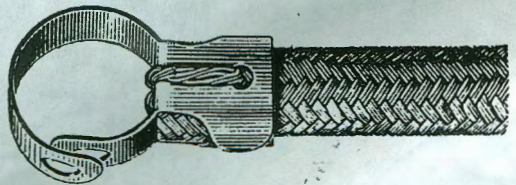


The Mesinger Rebound Check Strap.

One bolt attaches the clamp firmly to the body. A strong harness leather strap connects the extension spring with the axle and can be adjusted as desired because of a heavy double buckle. They are made in three sizes, No. 1 for cars up to 1200 pounds, \$3 per pair; No. 2 for cars up to 1800 pounds, \$4.50 per pair, and No. 3 for cars above 1800 pounds, \$6 per pair.

### A NEW SPARK PLUG TERMINAL

B. Morgan, of Tew's Court, Newport, R. I., has placed on the market the quick action spark plug terminal shown here-with.



Morgan's Spark Plug Terminal.

This device is simple in construction and will fit all spark plugs. With this terminal the binding screws on the spark plug are not required. The terminal is sold in quantities of 10 and 100 in a box, the price being \$1.20 per hundred.

In our March number on page 224, we published an article describing the "Star" pressed steel tire case, and by mistake the manufacturer's name and address was left out. This case is manufactured by The Merchant & Evans Co., 517 Arch Street, Philadelphia, Pa.

May 09