

their normal center and rapidly descend into the abdominal cavity on the right, causing the figure to lean forward at an angle of 20 degrees. The motor controlling the left limb being in full operation throws its member forward, the figure being in such a position that this free and rapid movement swings it round to the right; at the same instant the mercury governor, finding its level, forms an electric contact, setting in motion the motor, which rapidly draws the weights back to the line of gravity and causes the figure to regain its equilibrium. By changing the gear wheel, which controls the number of steps, the distance traversed is increased or decreased.

The figure also writes its name, "Enigmarelle," upon a blackboard. The arrangement by which this is done is said to be a series of electro-magnets in the shoulder. These attract an armature in the upper arm and cause the latter to make certain strokes.

The method by which the crowning feat, that of riding a cycle, is accomplished is similar to the walk. At a given number of revolutions the weights again descend into the abdominal cavity, but in this instance on the left, causing the cycle and figure, which are attached, to lean toward the center, at an angle of about 40 deg. with the perpendicular, so that the figure, like a coin or wheel, starts round a circle. The arm locks the handlebar at an angle such that the bicycle will turn the circle desired and the feet revolve the pedals and drive the machine in the regulation manner.

[The photographs of this automaton were submitted to the managers of a well-known New York theatrical enterprise and they at once stated that they had seen the automaton in London and that there was really a man concealed in the midst of this aggregation of machinery.—Ed.]

A 4,000-mile road test of pneumatic and solid tires will be started by the Automobile Club of Great Britain February 1. A complete set (four tires) of each make represented will be placed on an automobile of the weight which such tires are intended to carry. The four main classes are cars weighing, with occupants, 1,500, 2,400, 3,000, and 4,500 pounds respectively. There will be a special class for armored, or otherwise protected, tires. Such tires are to be used on cars of 3,000 pounds weight. In awarding the prizes the size, weight, and price of the tires in relation to the weight carried will be considered. The rules are very strict, and an accurate account will be taken of any extra tires, tubes, or protective devices supplied to the competitors during the course of the test. Any parts replaced are considered as worn out, and charged against the competitor. In the event of a set of tires lasting out the test, the competitor has the privilege of continuing this test at an expense of \$10 a day for the use of the car. The test will be continued under the auspices of the club.

INDEX OF INVENTIONS

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AND EACH BEARING THAT DATE

[See note at end of list about copies of these patents.]

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- Air treating apparatus, W. H. Carrier..... 808,897
- Alkali, making caustic, H. S. Blackmore..... 809,089
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# National

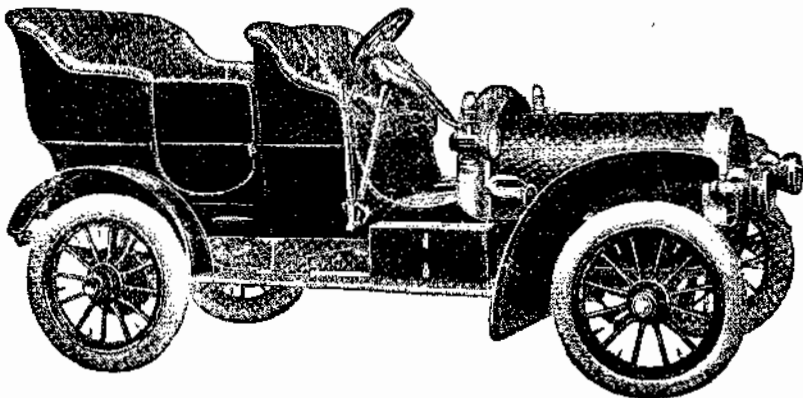
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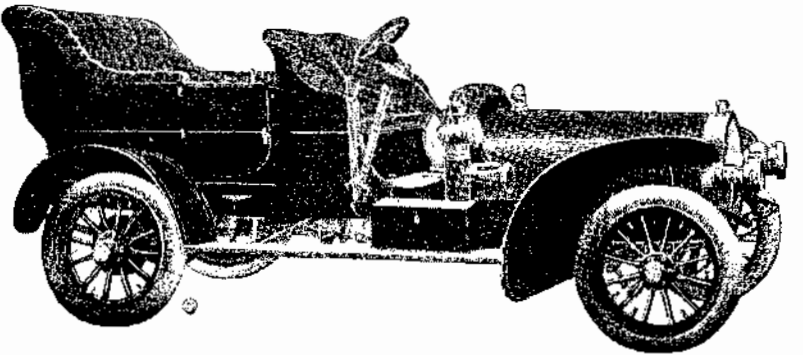
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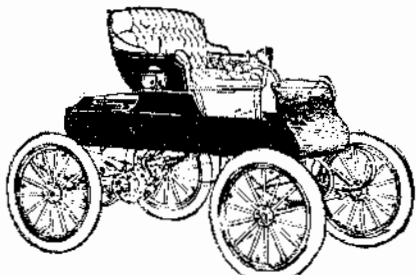
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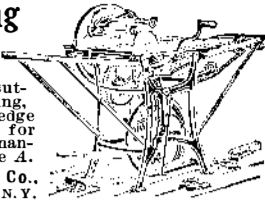
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- Badge, D. W. Perry..... 808,867
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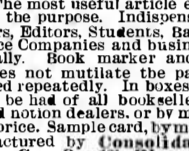


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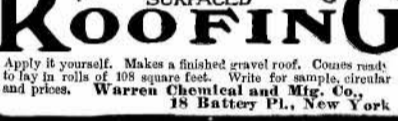
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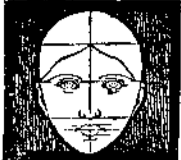
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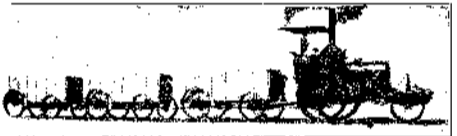
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