



Model F  
Light Touring Car  
\$950, f. o. b. Detroit.

# CADILLAC

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weigh them, you find that their weights are in proportion to their densities. This ratio of volume to weight is constant for the same material and is always the same as compared with any other material taken as a standard. This gives us what is called specific gravity. Water is taken as the standard, and iron weighs 7.7 times as much as water. Lead weighs 11.3 as much as water. Every substance has its own specific gravity. If a substance has the same specific gravity as water it does not sink or rise in water. If a substance has the same specific gravity as air it does not sink or rise in air. It stays just where it may happen to be. If a balloon is lighter than air it rises in air. A ball of lead falls in air because it weighs more than the air it displaces. There is more matter in a cubic inch of lead than in a cubic inch of air, about 800 x 11.3 times as much, or about 9,000 times as much, and that is the reason why a ball of lead falls in the air. In a fine mote in the sunbeam there is but little more matter than in the air it displaces, and that is the reason the mote floats slowly down to the earth in the sunbeam.

(9805) H. T. asks the composition of vulcanite to be used for insulating material on static machine. A Vulcanite is a hard rubber. It is made by heating India-rubber gum with sulphur at a higher temperature than is used with soft rubber, so that it contains more sulphur than the soft rubber. Send 30 cents for three papers on rubber.

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\$2800

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If the price of this car were double you could easier credit its luxurious quality and what it does

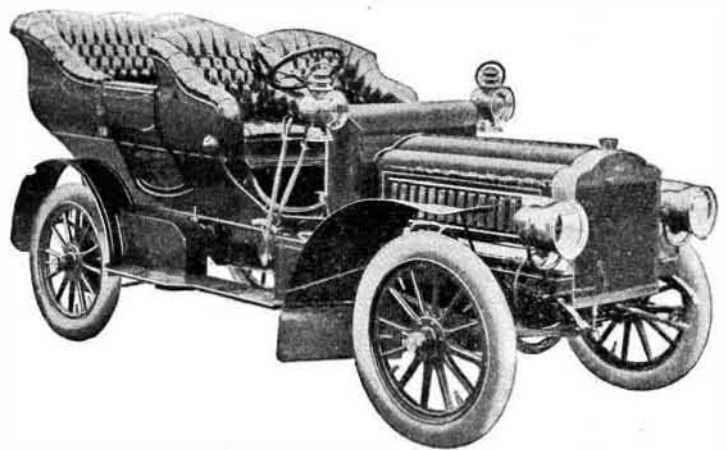
This car sets a new standard for high-power touring cars. Money cannot buy higher grade material and construction, greater mechanical refinement, or better touring mileage in a 4-cylinder car. Because of its great strength, lightness and perfect spring-suspension, it takes rough roads safely and comfortably at high speed. Ready for service every day in the year—it never overheats or freezes.

4 Models for 1906. Send for the book

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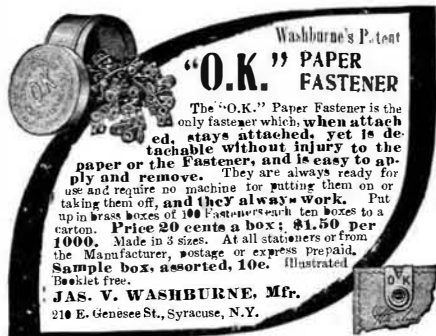


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JAS. V. WASHBURNE, Mfr.  
210 E. Genesee St., Syracuse, N. Y.

### INDEX OF INVENTIONS

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for the Week Ending

September 26, 1905

AND EACH BEARING THAT DATE

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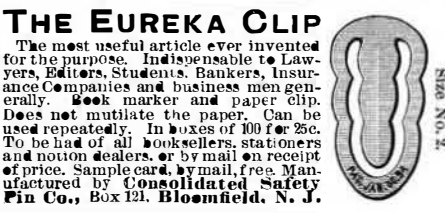
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