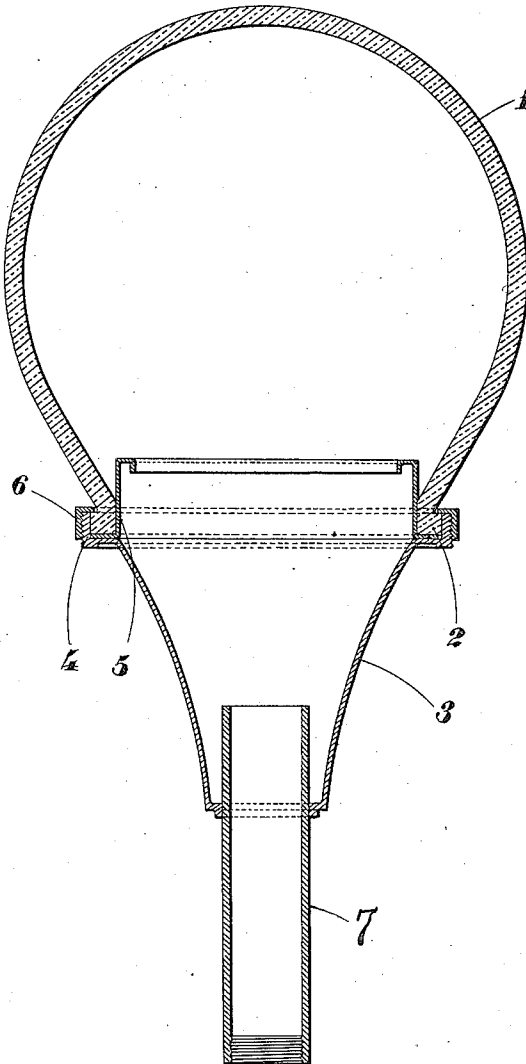


A. CLÉRET.
BULB FOR AUTOMOBILE HORNS AND THE LIKE.
APPLICATION FILED AUG. 28, 1911.

1,011,158.

Patented Dec. 12, 1911.



Witnesses.

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UNITED STATES PATENT OFFICE.

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BULB FOR AUTOMOBILE-HORNS AND THE LIKE.

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Specification of Letters Patent.

Patented Dec. 12, 1911.

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To all whom it may concern:

Be it known that I, ALBERT CLÉRET, citizen of the French Republic, residing at Paris, Department of the Seine, in France, have invented certain new and useful Improvements in Bulbs for Automobile-Horns and the Like; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The elastic bulbs of automobile horns and similar devices are usually applied directly to the air pipe or body of the horn with the reduced conical portion of the bulb fitted directly over such pipe or horn. This method of mounting the bulb presents the disadvantage that the reduced conical portion of the bulb by means of which the attachment is effected wears out very quickly, and moreover, the formation of the bulb in a single piece makes it necessary to introduce gas under pressure into the interior of the bulb in molding the latter, whereby a uniform and homogeneous molding of the bulb wall, to give it the necessary strength, is either made impossible, or, in any event, very difficult. The shape of the usual one-piece bulb prevents the employment of a rigid one-piece core such as is necessary to produce an efficient molding of the bulb wall between two rigid mold walls subjected to high pressure.

The object of the present invention is to obviate these disadvantages; and the invention consists in constructing the bulb of two main parts, viz., an elastic body which can be molded on a solid core, and a rigid member secured to said body and adapted to be applied to the air pipe or horn body, all as hereinafter described and claimed.

The accompanying drawing shows in longitudinal section a bulb construction embodying the invention.

Referring to the drawing 1 designates a hollow elastic body of rubber or other suitable material, which is preferably of approximately spherical shape and is provided with a relatively large open end portion or mouth through which a solid core for molding the body may be easily removed. The open end portion or mouth of the body is preferably provided with a laterally directed bead 2 integral therewith, whereby the body may be secured to a rigid section 3 by means of which the bulb is mounted on its support.

The rigid section 3 is preferably of approximately conical shape, as shown, and at the open, relatively wide end of the same it is provided with means whereby it may be firmly secured to the adjacent mouth portion of the elastic body 1. At the smaller end of the section 3 the latter is suitably fitted on the bulb support, such as the air pipe 7. In the embodiment shown in the drawing the wide end of the rigid section 3 is provided with a laterally directed flange 4 in which is fitted the annular flange 5^a of a rigid ring 5, preferably constructed of suitable metal, and the bead 2 of the elastic body or section 1 is so seated against the flange 5^a that the latter is interposed between said bead and the flange 4 of the rigid section 3. In order to secure firmly the parts in the position just indicated, a suitable device such as a ring 6 is associated with the flange 4, said ring being threaded on said flange and overlapping the bead 2, so that by screwing up the ring 6 it is possible to press the bead 2 and the flange 5^a of the ring 5 firmly against the annular seat afforded by the flange 4. However, this specific means for interconnecting the sections 1 and 3 is not essential to all aspects of the invention.

The ring 5 is extended into the elastic body or section within and beyond the mouth of said body, in order to reinforce the body at the edge thereof, and for the further purpose of supporting the body to a certain extent from the interior. It is therefore impossible to bend the elastic body in a lateral direction sufficiently to exert an undue strain on its connection with the rigid section of the bulb. It will also be evident that the ring 5 prevents the elastic body from being collapsed at the point where it is connected with the rigid bulb section.

Without limiting myself to the construction shown, I claim:

1. In a bulb such as described, the combination of a hollow elastic body having a relatively wide open end or mouth, and a rigid section secured to said body adjacent said open end or mouth and having a reduced end portion to fit over a suitable support.

2. In a bulb such as described, the combination of a hollow elastic body having an open end portion, and a rigid approximately conical section secured at one end to said body at the mouth of the latter.

3. A bulb such as described, comprising a hollow elastic section having an open mouth at one end, and a rigid section having a wide end secured to said mouth and a narrow end
5 to secure the bulb on a suitable support.

4. A bulb such as described, comprising a hollow elastic section having an open mouth, a second section secured to said first section at said mouth, and an internal support for
10 one of said sections associated with the connection between the same.

5. A bulb such as described, comprising a hollow elastic section, a rigid section, means to connect said sections, and means asso-

ciated with said connecting means to sup- 15
port the elastic section interiorly.

6. A bulb such as described, comprising a rigid section having a lateral flange at one end, a hollow elastic section having an open mouth and a bead adjacent said mouth 20
seated on said flange, and a detachable device to hold said bead against said flange.

In testimony whereof I affix my signature,
in presence of two witnesses.

ALBERT CLÉRET.

Witnesses:

H. C. COXE,

LOUIS LOSSE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."