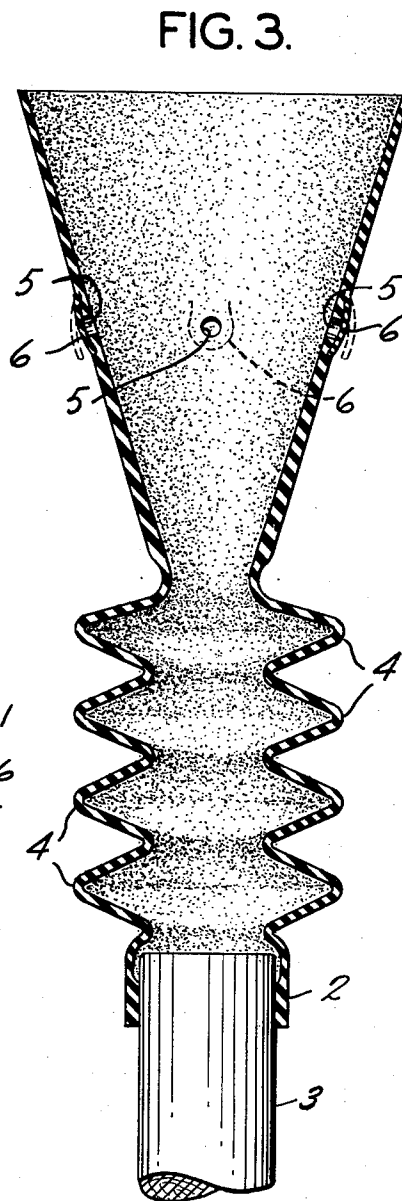
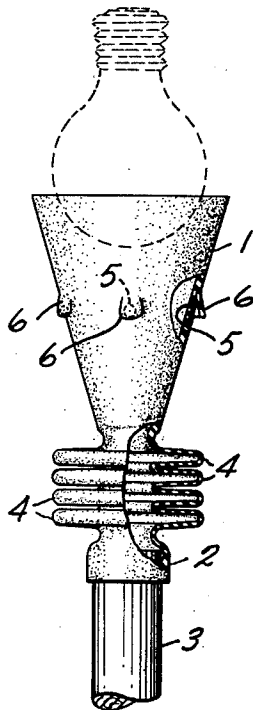
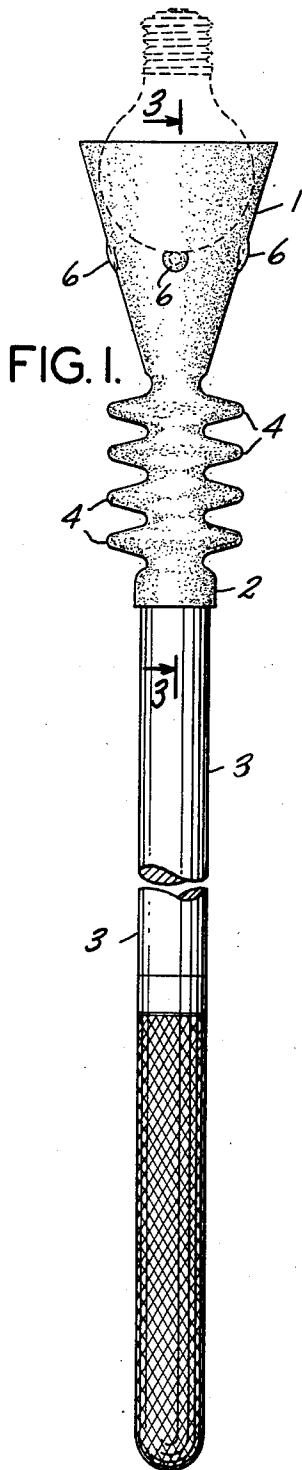


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R. C. ROBINSON
ELECTRIC BULB REMOVER
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INVENTOR.

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UNITED STATES PATENT OFFICE

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ELECTRIC BULB REMOVER

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2 Claims. (Cl. 294—20)

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The invention relates to improvements in electric bulb removers in which a rubber suction cup operates in conjunction with a plurality of contractable circular dilations located along its neck and air-escape holes provided in its circular wall, each of said holes provided with a flexible trap-cover; and the objects of the improvement are, first, to provide a rigid pole for the rubber cup; and, second, to afford facility for the proper adjustment of the cup upon an end of the said pole.

One form of the invention is illustrated in the accompanying drawings, in which Figure 1 is a vertical view of the entire tool; Figure 2, a vertical view of the tool as it appears with the circular dilations horizontally contracted under applied manual pressure; and Figure 3, a detailed cross-section view of a part of the tool on line 3, 3.

The rubber suction cup 1, secured at its lower neck 2 upon end of rigid pole 3 constitutes the assembly of the entire tool. Suction faculty is provided for the cup 1 when manually pressed upon the enlarged end of an electric bulb, said manual pressure horizontally contracting the circular dilations 4, 4, forcing air within the cup to be expelled through escape holes 5, 5, 5, said holes closed by the trap-covers 6, 6, 6, reacting normally under external air pressure when said manual pressure is relaxed.

The cup 1 previously referred to, and shown in cross-section perspective in Figure 3, is provided with a circular wall gradually increasing in thickness from a thin resilient edge or mouth continuously to a point of maximum increase, said point comprising that section of the neck wherein the circular dilations 4, 4, are located; at which point the said thickness is slightly reduced and continuously maintained along the neck to the lower neck 2 which is in communication with the pole 3, whereat the said thickness is immediately increased, said immediate increase continuously maintained.

The circular dilations 4, 4, previously referred to, and also shown in cross-section perspective in Figure 3, provide, through their combined contracted action resultant when the cup 1 is manually pressed upon the enlarged end of an electric light bulb (see Fig. 2), the means whereby air within the said cup is rarefied; said means including the forced expulsion of air within the cup through escape holes 5, 5, 5, provided in circular wall of the said cup.

The flexible trap-covers 6, 6, 6, previously referred to, provided on the exterior surface of circular wall of cup 1, and partially attached

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to said wall at a point directly above escape holes 5, 5, 5, each having a greater un-attached portion extending downward freely over the entire area of the said holes (see Fig. 2 and Fig. 3), provide means for preventing replacement of air expelled from within the cup (accomplished by the manually contractable action of circular dilations 4, 4); said means employing the normal reaction of the said trap-covers to external air pressure in forcing their closure of the said holes once the upwardly applied manual pressure on the cup is relaxed, thus permitting a partial vacuum to be maintained within the cup.

I am aware that prior to my invention electric bulb removers have been made. I therefore do not claim such broadly; but

I claim:

1. An electric bulb remover comprising a flexible rubber suction cup mounted upon an end of a rigid pole and shaped to receive the enlarged end of an electric light bulb; said cup having a plurality of contractable circular shaped dilations located along its neck and air-escape holes provided in its circular wall; and means provided for closing said holes, said means including a flexible trap-cover for each hole, said trap-covers partially attached to exterior surface of circular wall of said cup and each having a greater un-attached portion extending downward freely over the area of each hole exceeding in size the entire area of each hole.

2. An electric bulb remover comprising a rubber cup mounted upon an end of a rigid pole, said cup having a plurality of circular shaped dilations along its neck and air-escape holes in its circular wall; and means provided for closing said holes preventing replacement of air expelled from within the cup when said cup is manually pressed upon the enlarged end of an electric bulb, said means including a flexible trap-cover for each said hole, said trap-covers partially attached to outer surface of circular wall of the cup.

ROY CECIL ROBINSON.

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