

UNITED STATES PATENT OFFICE.

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ATTACHING MEANS FOR ELECTRIC LAMPS.

No. 843,316.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, EARL G. WILSON and WILLIAM B. GOODWIN, citizens of the United States, residing, respectively, at Morrow and Columbus, in the counties of Warren and Franklin and State of Ohio, have invented certain new and useful Improvements in Vacuum-Cup Supports for Small Articles, of which the following is a specification.

Our invention relates to new and useful improvements in vacuum-cup supports for small articles.

One of the principal objects of our invention is to provide means for attaching electric lamps to flat surfaces, such as window-glass, mirrors, and, in fact, any smooth supporting-surface which is substantially flat and of a non-porous character.

Another of the objects is the provision whereby the lamp may be readily and expeditiously attached to and removed from the support.

Still another object of our invention is to provide means which shall not involve the use of magnetic force to hold the lamp to the support.

Finally, the object of the invention is to provide means of the character described which will be efficient and durable and capable of production at a reasonable cost.

With the above and other objects in view the invention consists of the novel details of construction and operation, a preferable embodiment of which is described in the specification and illustrated in the accompanying drawings, wherein—

Figure 1 represents in perspective our invention combined with an incandescent lamp and before being attached to a support. Fig. 2 represents in perspective the lamp attached to a vertical pane of a window. Fig. 3 is a vertical central section of the attaching means and the lamp, the lamp being shown partly in elevation and the view being taken at right angles to Fig. 4. Fig. 4 represents a vertical central section of the lamp and of our invention, together with a section through the glass to which the same is attached. Fig. 5 is a view in perspective of the lower portion of a lamp having our invention attached thereto and showing the under portion of the cup; and Fig. 6 is a vertical central section of the cup,

showing the formation of a bead or ridge to form the groove hereinafter mentioned.

We will now proceed to describe our invention in detail.

A indicates an incandescent lamp, of which A^2 is the bulb. A^3 indicates the filaments. A^4 indicates the socket, in which one end of the bulb A^2 and the ends of the filaments A^3 are held. B indicates a second socket adapted to be readily attached to the socket A^4 . The preferred means of such connection are screw-threads, the socket A^4 exteriorly carrying the convex screw-threads and the socket B being interiorly provided with concave screw-threads adapted to engage the screw-thread of the socket A^4 . The socket B carries the contacts or terminals C and C^2 , extending out from the socket. All of these parts A, A^2 , A^3 , A^4 , B, C, and C^2 are old and are well known.

In carrying out our invention we provide a rubber cup E, which is preferably shaped in the form of a bell or an inverted funnel. At the lower end of the cup or that portion which is to be engaged with the supporting-surface an annular recess or pocket E^3 is provided. This pocket may be formed by suitably securing within the cup E a similar shaped cup E^2 , having its lower edge E^4 terminating short of the lower edge of the cup E, as shown in Figs. 3, 4, and 5. Various constructions may be used for providing this recess, among which is that shown in Fig. 6, where an annular bead or rib E^5 is formed about the interior of the cup E a short distance above its lower edge.

The cup E is connected to the socket B by rubber or other suitable material G, which is passed about the terminals C and C^2 and embraces the sides of the socket, as shown in the drawings. The preferred mode of perfecting such connection of the parts is by placing the socket B and its terminals in a mold and casting the rubber about the same, so that a permanent connection is had. It is desirable that the upper small end or apex of the cup register with the lower end or bottom of the socket, as shown in Fig. 3.

The manner of applying the lamp provided with our invention to the desired support is as follows: The lamp is grasped by the bulb or socket and the cup E placed against the glass or other smooth non-porous support

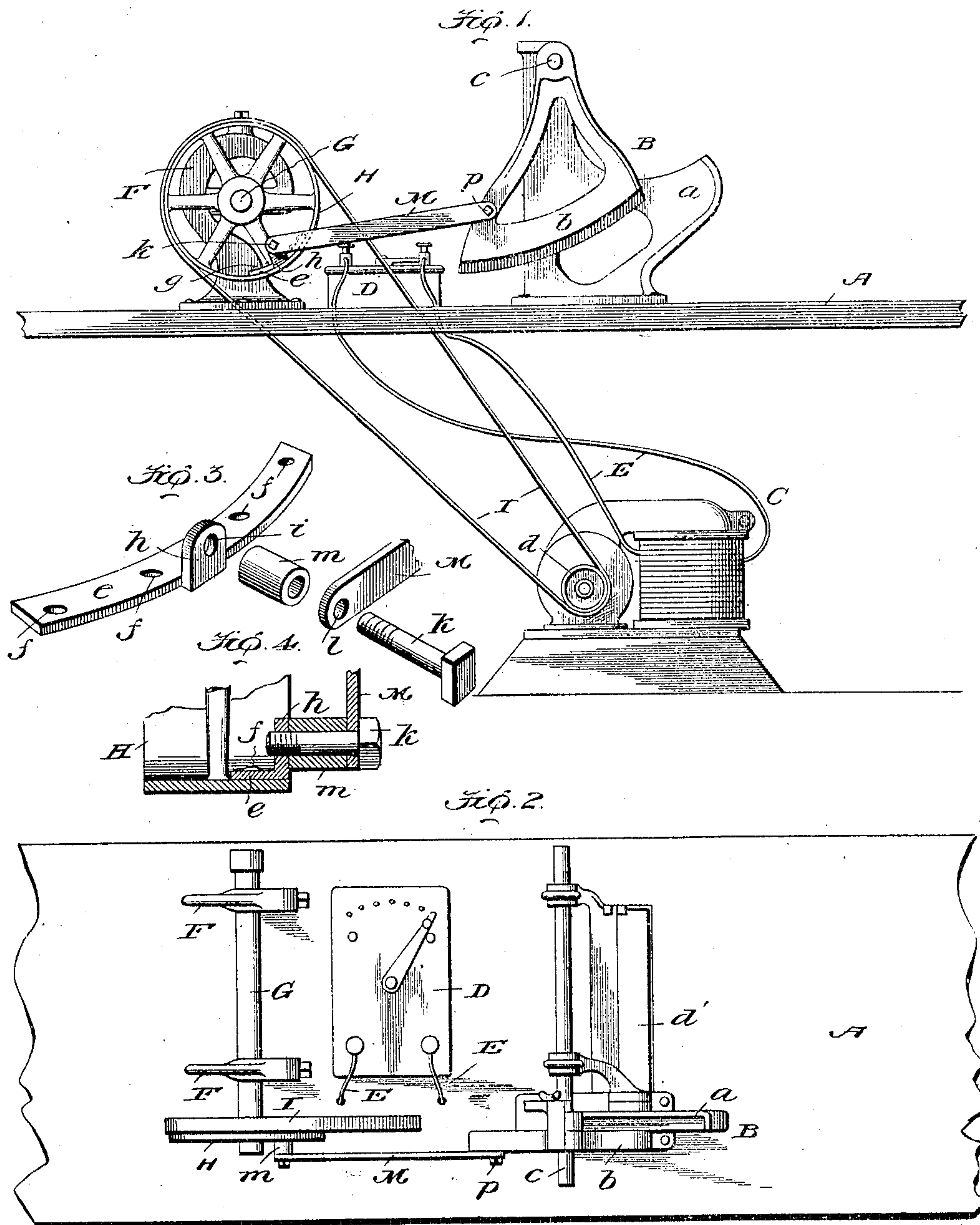
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ELECTROMECHANICAL APPARATUS FOR SHAVING OR SLICING BEEF.

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