

C. A. AUSTIN.
 SUCTION SUSPENDING DEVICE.
 APPLICATION FILED AUG. 19, 1909.

963,264.

Patented July 5, 1910.

Fig. 1.

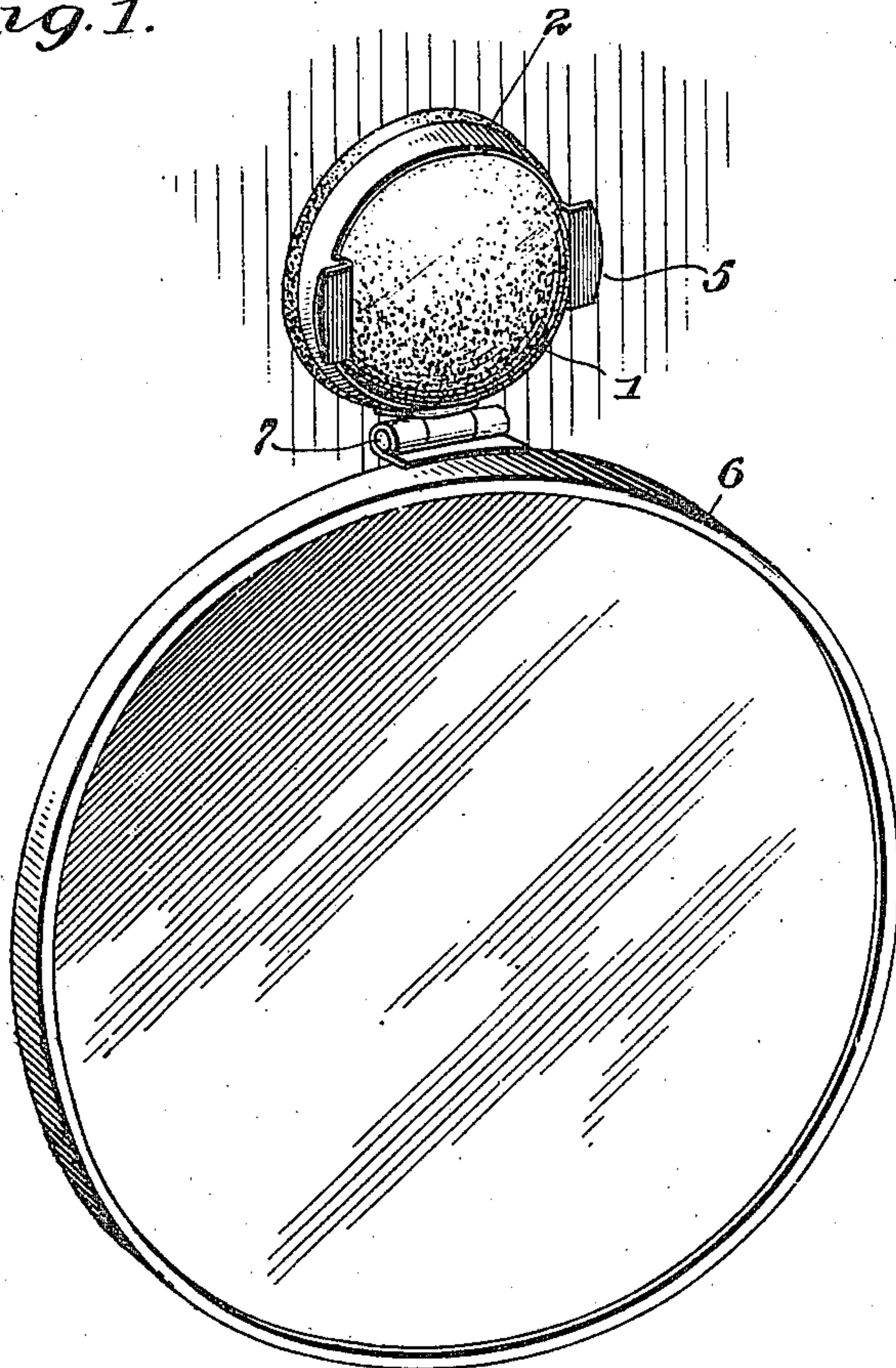


Fig. 2.

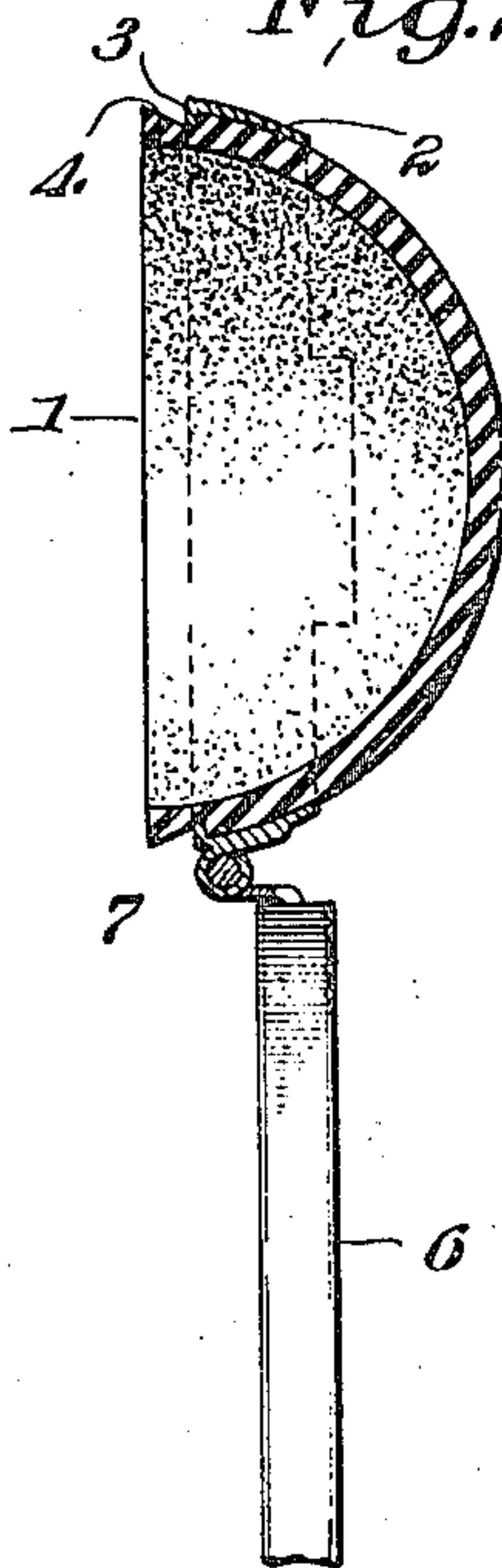
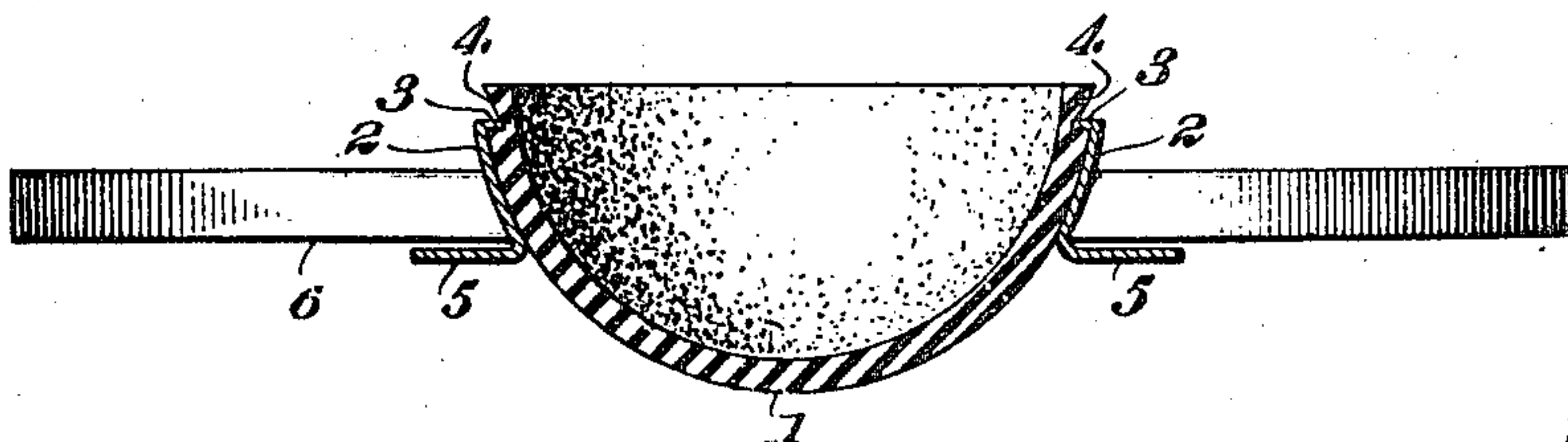


Fig. 3.



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UNITED STATES PATENT OFFICE.

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SUCTION SUSPENDING DEVICE.

963,264.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES A. AUSTIN, citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Suction Suspending Devices, of which the following is a specification.

This invention comprehends certain new and useful improvements in suction suspending devices arranged to suspend a mirror, coat, or hat hook, display holders, or other articles from window panes, show cases, or other smooth sustaining surfaces, and the invention has for its primary object a very simple, durable and efficient construction of device of this character which may be cheaply made and the parts easily assembled. And the invention has for its further object an improved construction of device of this character in which the suction cup of rubber or the like is held rigid at the rim so as to make a permanent grip on the sustaining surface when the rubber rim is properly moistened, the rim being prevented from spreading.

With these and other objects in view as will more fully appear as the description proceeds, the invention consists essentially in a suction suspending device embodying a suction cup of rubber or the like, a ring of relatively rigid material, such as a band of metal or wire encircling the cup near the rim thereof and leaving a portion of the cup exposed at the rear of the ring at which point the operator's fingers may be applied to compress the cup to produce a partial vacuum therein, said ring having a clencher connection with the cup as by an inwardly extending flange formed on the ring engaging in a groove circumscribing the exterior wall of the cup near the rim thereof, the said rim being formed at diametrically opposite points with finger holds which are extended outwardly and by which the entire device may be handled in the operation of engaging the same with the sustaining surface.

The invention also consists in certain details of construction and arrangements and combinations of the parts, that I shall hereinafter fully describe and claim.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawing in which:

Figure 1 is a perspective view of a device embodying the improvements of my invention; Fig. 2 is a vertical longitudinal section thereof; and, Fig. 3 is a horizontal section.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawings by the same reference characters.

Referring to the drawing the numeral 1 designates the suction cup which is preferably composed of rubber, 2 designates the relatively rigid backing formed of any desired material, the said backing in the present embodiment of my invention being in the nature of a ring or band of metal which encircles the cup 1 and which has a clencher connection therewith. This connection in the present instance consists of a flange or bead 3 which is formed by curving inwardly one edge of the ring 2, said flange engaging in a groove 4 which circumscribes the exterior wall of the cup 1 near the rim thereof. It is to be understood that the term "groove" in this connection is to include a rib or wale, or any equivalent therefor. The ring 2, as clearly shown in the drawing leaves exposed the rear portion of the cup 1 so that the operator's fingers may be applied at such point to compress the cup so as to produce a partial vacuum therein after the cup has been pressed against the window pane or other sustaining surface, it being understood that the rim is properly moistened before this operation is performed. In order to facilitate the application of the device to surfaces for sustaining it, the ring 2 is formed at preferably diametrically opposite points with outwardly turned ears or projections 5, which constitute finger holds.

In the accompanying drawing, I have shown the article to be suspended by my invention as a mirror 6 for shaving or other use, connected to the ring 2 as by a hinge joint as indicated at 7; but it is to be understood that my invention is not limited to a mirror as the article to be supported,

the invention being clearly applicable to sustain coat and hat hooks, show-case display holders or other articles as required.

Having thus described the invention, what
5 is claimed as new is:

As a new article of manufacture, the herein described suction suspending device embodying a suction cup and a relatively rigid ring encircling said cup near the rim, the
10 cup being exposed in the rear of said ring,

the ring being formed at diametrically opposite points with outstanding ears adapted to serve as fingerholds.

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

CHARLES A. AUSTIN. [L. s.]

Witnesses:

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