

(No Model.)

D. E. LADD.

HANDLE FOR GLASS COVERS.

No. 255,388.

Patented Mar. 21, 1882.

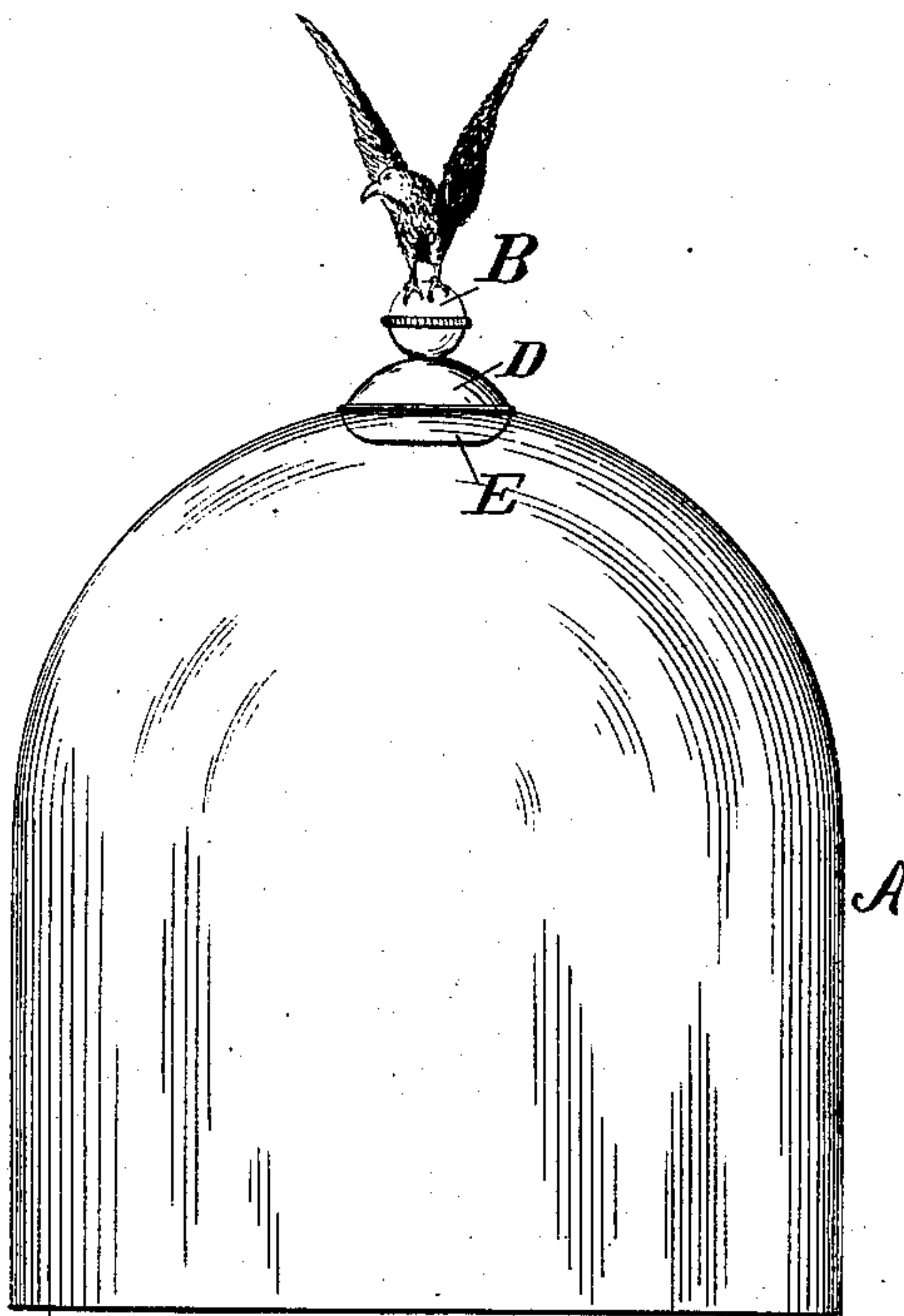


Fig. 1.

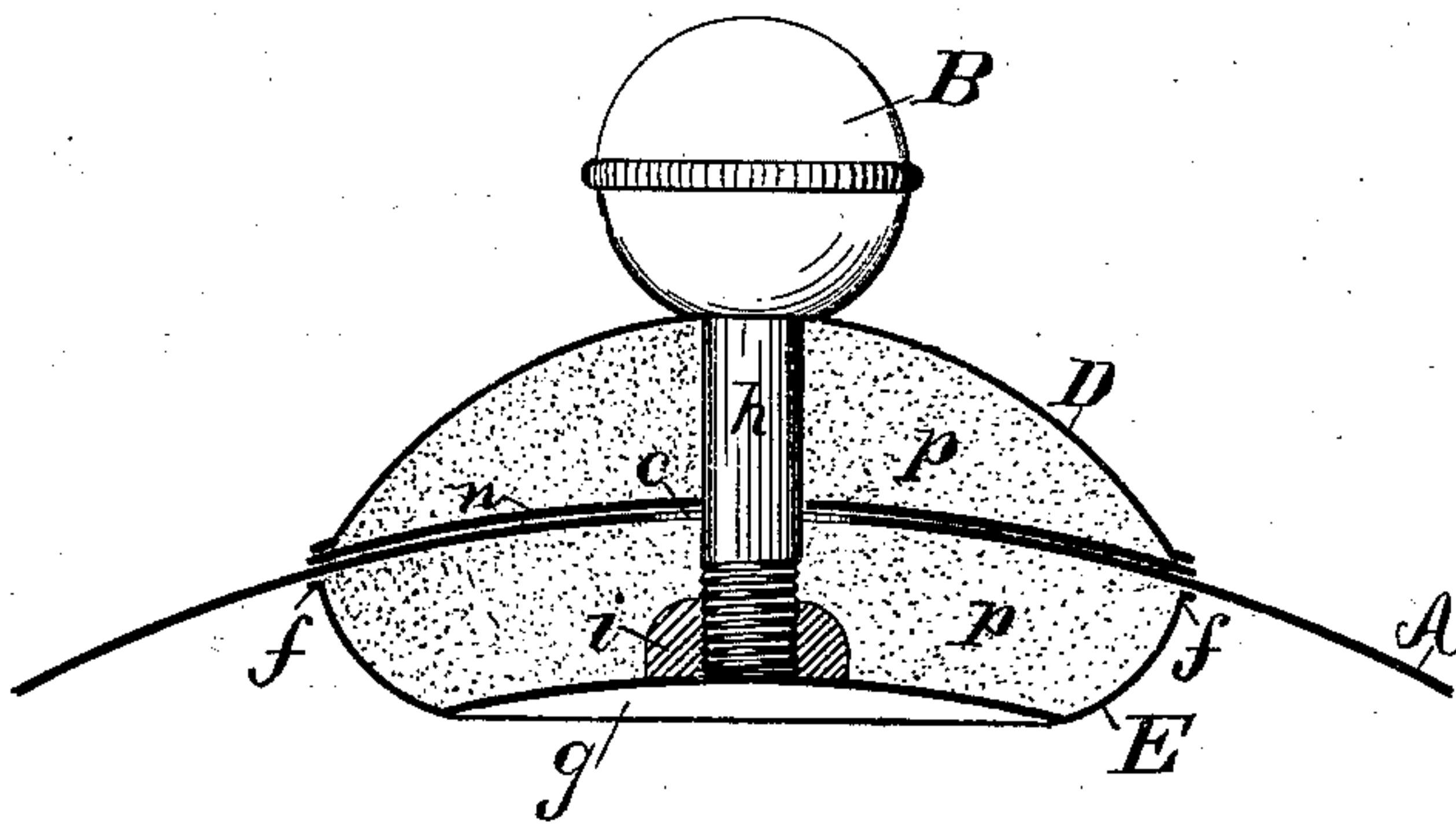


Fig. 2.

Witnesses:

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Inventor:

Danl E. Ladd
By his Atty
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UNITED STATES PATENT OFFICE.

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HANDLE FOR GLASS COVERS.

SPECIFICATION forming part of Letters Patent No. 255,388, dated March 21, 1882.

Application filed January 30, 1882. (No model.)

To all whom it may concern:

Be it known that I, DANIEL E. LADD, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Handles for Glass Covers, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention has for its object to provide a detachable handle for blown glass covers or shades, such as are employed to cover statuettes, wax flowers, mantel-clocks, ornaments, and the like.

A glass shade with my improved handle will first be described, and the invention will then be designated in the claims.

In the drawings hereto annexed, Figure 1 is a view of a shade provided with a handle in accordance with my invention. Fig. 2 is a view partly in section, on a larger scale, showing the parts.

The letter A designates the glass shade, having a semi-ovoidal top. B is the handle, attached thereto after the shade has been finished. The shape of the handle is immaterial. It may be in any desired ornamental form. In the present instance it represents an eagle with spread wings mounted on a ball. A suitable hole, c, is formed in the top of the glass shade.

D designates a circular concavo-convex metal plate, which is placed upon the top of the glass shade over the hole, the convex side of the plate being up, and the rim or edge bearing against or toward the glass. A saucer-shaped metal plate, E, is placed within the glass shade, with its rim or edge f upward against the glass. As the two plates D and E have the same diametrical measurement, the rim of the one on the inner side of the glass coincides with or is directly opposite the rim of the other on the outer side of the glass; and when the two plates are firmly secured in this position this arrangement gives the desired clamping hold upon the glass, by which the handle is secured.

The saucer-shaped plate E is concaved on the bottom or outer side, as indicated at g. A hole through the center of both plates permits the passage of a bolt, h, the upper end of

which is made fast to the handle, (in the present instance the ball part of the handle,) and the lower end is screw-threaded to enter the nut i, attached to or upon the outside of the saucer-shaped plate E.

The parts just described, together with a rubber-disk washer, n, and the plaster-of-paris filling p, constitute all that are essential in the most difficult cases of attaching handles. The manner of employing these will now be described.

Sheet-rubber is cut to form the circular disk-washer n, and a hole is made in its center for the bolt h. The rubber disk is placed on the outside of and directly against or in contact with the glass. The two metal plates are each filled with plaster-of-paris previously mixed with water, and each is placed in the position before described and as shown in the drawings. The bolt h is then passed through from the top and screwed into the nut i until the two rims or edges of the plates are brought to clamp the glass sufficiently tight. The rubber permits the top plate, D, to be pressed quite hard without liability of the plate-rim breaking the glass, and the plaster-of-paris filling assumes a form which is adapted perfectly to any irregularity or unevenness of the glass. As the rubber extends entirely under the plaster filling on the top, it serves as an elastic cushion for the plaster, as well as for the rim of the plate, and this permits the bolt to be screwed until very tight, thereby holding the handle to its position with great rigidity.

My described arrangement of plates with handle and attached bolt to connect them is such that the handle may be attached and may be detached at any time. The same parts with the rubber disk is an advantage, as the rubber provides a cushion for the rim of the plates. Again, the aforesaid parts, with the plaster-of-paris filling in the concaved or saucer-shaped plates, insures that all that part of the glass cover between the plates, however irregular or uneven, is uniformly clamped or pressed, thereby securing rigidity of the handle without liability of breaking the glass; but the employment of the aforesaid plates, the rubber disk, and the plaster-of-paris filling together

provides a means for attaching a handle to a thin glass cover which will insure rigidity and not injure the glass.

The advantage of the concaved bottom *g* is that it prevents the end of the bolt which may protrude from being seen on a side view, and likewise provides for the use of a nut on the outside or against the bottom without its showing.

10 If desired, the end of the bolt next to the handle may be squared, and the hole in the plate *D* likewise squared to prevent the handle and bolt from turning separately from the said plate. In this case the use of a nut on the out-
15 side of the concaved bottom would be necessary.

Having described my invention, I claim and desire to secure by Letters Patent of the United States—

20 1. A blown glass shade or cover provided with a detachable handle secured by means substantially as described, as set forth.

2. A glass shade or cover provided with a detachable handle secured by means of a cir-

cular metal plate, *D*, upon the top of the glass 25 cover, and a circular plate, *E*, within the glass cover, so arranged that the rims or edges of the two plates coincide or are directly opposite, and a bolt one end of which is attached to the handle to secure the two plates firmly 30 in said position, as set forth.

3. A glass shade or cover provided with a detachable handle secured by means of a cir- 35 cular concavo-convex metal plate, *D*, upon the top of the glass cover, and a circular saucer-shaped plate, *E*, within the glass cover, a rubber washer against the glass, a filling in each plate of plaster-of-paris, the latter covering the rubber washer, and a bolt one end of which is attached to the handle to secure the two 40 plates firmly in position, as set forth.

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

DANIEL E. LADD.

Witnesses:

JNO. T. MADDOX,

CHAS. B. MANN.