H. Oliver,

Breastpin Photographs,

No. 23,042. Patented Feb. 22, 1859.

Fig: 1.



Fig: 2.

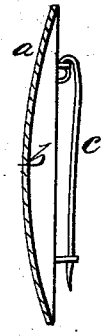
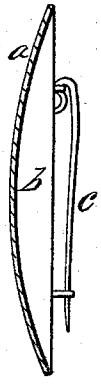


Fig: 3.



Fig: 4.



AM. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS)

UNITED STATES PATENT OFFICE.

HENRY OLIVER, OF PHILADELPHIA, PENNSYLVANIA.

BROOCH, EAR-RING, &c.

Specification of Letters Patent No. 23,042, dated February 22, 1859.

To all whom it may concern:

Be it known that I, HENRY OLIVER, of the city and county of Philadelphia, in the State of Pennsylvania, have invented certain new and useful Improvements in Photographic or Sun Pictures; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a front view of a brooch and Fig. 2 a vertical section of the same. Fig. 3 a front view of a modification of Fig. 1 and Fig. 4 a vertical section of Fig. 3.

The letters of reference indicate the same parts in the different figures.

My invention relates to the production of permanent photographic or sun pictures upon concave surfaces of glass by causing the picture to be taken on a collodion film or its equivalent on the inner or concave surface of glass, and then to be coated or backed with suitable cement for the purpose of producing a new article of ornamental manufacture viz., brooches, buckles, etc.

The following is a description of the application of my invention in the manufacture of imitation jet brooches.

Figs. 1 and 2 represent a circular brooch, composed of a watch crystal *a* upon the inner or concave surface of which a photographic image is fixed by any convenient process, the crystal being held in the camera during the operation, in a glass frame or holder. When the picture is finished the concavity is filled with cement *b*, composed of gum shellac, resin and coal tar, in the proportions of six parts by weight of resin; one of coal tar and one of gum shellac; in which the pin *c* is secured. Figs. 3 and 4 represent an ellipsoidal brooch manufactured in a similar manner.

My improvement is applicable to a great variety of ornamental purposes such as ear-rings, covers of snuff-boxes, portemonnaies, etc.

A peculiar and beautiful effect is produced by placing a photographic picture upon the concave surface and the appearance of the finest enamel painting is readily imitated. The figures show up in relief, which is not the case when the picture is upon a flat surface.

I am aware that sun pictures have been produced upon the inner surfaces of planes of transparent material and that temporary concave fields have been suggested to overcome the spherical aberration of the lenses in the production of pictures having a plane surface; but

What I claim as my invention is—

Photographic or sun pictures upon concave surfaces of glass and backing it up with cement in the manner and for the purpose substantially as above specified.

HENRY OLIVER.

Witnesses:

J. GWINN CHILD,

J. H. B. JENKINS.