(No Model.)

E. SCHILL & A. BECKER.

JEWELRY.

No. 398,657. Patented Feb. 26, 1889.

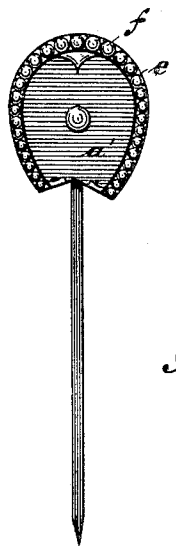


Fig. 1.

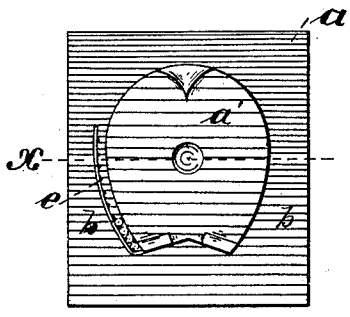


Fig. 2.



Fig. 3.

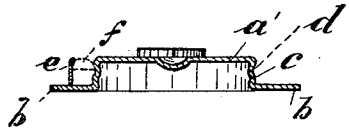


Fig. 4.

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UNITED STATES PATENT OFFICE.

EMIL SCHILL AND ANDREAS BECKER, OF NEWARK, NEW JERSEY.

JEWELRY.

SPECIFICATION forming part of Letters Patent No. 398,657, dated February 26, 1889.

Application filed September 20, 1888. Serial No. 285,848. (No model.)

To all whom it may concern:

Be it known that we, EMIL SCHILL and ANDREAS BECKER, a subject of the Emperor of Germany and a citizen of the United States, respectively, and residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Jewelry; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of this invention is to reduce the cost of construction, to secure a permanent setting, and to obtain a more perfect finish.

The invention consists in the arrangements and combinations of parts, substantially as will be hereinafter set forth, and finally embodied in the clauses of the claim.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts in each of the several figures, Figure 1 is a front elevation of the improved setting. Fig. 2 is a plan of a blank in course of preparation for the stones. Fig. 3 is a side elevation of the improved device; and Fig. 4 is a sectional view of said blank, taken on line *x*, Fig. 2.

In said drawings, *a* indicates a blank struck up from sheet metal by suitable dies, so that a hollow raised portion, *a'*, is formed, and around the same a flange, *b*, which extends out at or approximately at right angles to the wall or bearing *c*, formed in raising the said part *a'*. Upon said flange, a little way from the bearing *c*, is soldered what is in the art termed a "gallery," which consists of a strip of metal provided with a series of grasping-fingers which hold the stones down in place. The said bearing *c* is provided with a recess, *d*, which receives one side of the series of stones *f*, and the said gallery *e* is soldered, so that it engages the opposite side of the said series, as will be understood upon reference to Fig. 4.

In constructing the device the blank is first formed, so that the raised central parts provide surrounding bearings. Then the gallery is soldered to the flange remaining around said bearing, and the superfluous metal is trimmed off, and finally the jewels or stones are set between the gallery and the metal of the blank and finished. The construction thus described can be effected in a very much reduced time as compared with methods of manufacture heretofore employed, the product is more presentable, and the stones are held with greater security.

It will be observed that the outer edge or rim of the blank is first bent downward approximately at right angles with the body portion to form a bearing, and then bent again upon a line parallel with said body portion, there being formed, however, in the side of the portion first bent a recess or groove, *d*, above referred to, which forms one side of the setting and serves to hold or assist in holding the jewels or stones firmly in said setting, this groove or recess being, therefore, an important feature of the device.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The improved setting herein described, combining therein a raised blank or body portion of sheet metal, the outer rim of which is bent at right angles to said body portion to form a bearing, *c*, provided with a recess or groove, *d*, a flange, *b*, and a gallery secured to said flange, provided with grasping-fingers and co-operating with said groove-bearing to hold the jewels firmly in place, as set forth.

2. The improved jewel-setting herein described, combining therein a body portion bent to form a recessed or grooved shoulder or bearing for the jewels and a flange or seat for a gallery, said bearing and flange being formed of one piece of metal, and said gallery fastened on said seat and adapted to hold the jewels against said grooved bearing, as set forth.

In testimony that we claim the foregoing we have hereunto set our hands this 17th day of September, 1888.

EMIL SCHILL.
ANDREAS BECKER.

Witnesses:
OLIVER DRAKE,
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