

(No Model.)

E. A. THIÉRY & C. F. CROSELMIRE.

ARTICLE OF JEWELRY AND METHOD OF ORNAMENTING THE SAME.

No. 333,697.

Patented Jan. 5, 1886.

Fig. 1.



Fig. 2.

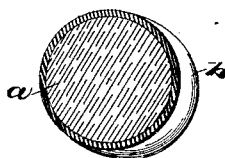


Fig. 3.

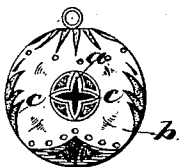
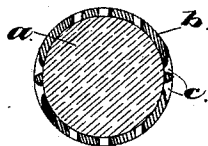


Fig. 4.



Fig. 5.



Witnesses:

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UNITED STATES PATENT OFFICE.

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ARTICLE OF JEWELRY AND METHOD OF ORNAMENTING THE SAME.

SPECIFICATION forming part of Letters Patent No. 333,697, dated January 5, 1886.

Application filed September 3, 1885. Serial No. 176,065. (No model.)

To all whom it may concern:

Be it known that we, EDWARD A. THIÉRY and CHARLES F. CROSELMIRE, citizens of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Articles of Jewelry and Methods of Ornamenting the Same, of which the following is a specification, reference being had therein to the accompanying drawings, in which—

Figure 1 is an elevation of a sphere or ball with a seamless covering of metal. Fig. 2 is a vertical central section partly in perspective, showing the glass or crystal base and the metal covering. Fig. 3 is a view similar to Fig. 1, but with portions of the metallic covering cut away in ornamental design. Fig. 4 is a like view of a different form of article, and Fig. 5 is a vertical central section of Fig. 3.

Our improvement relates to the ornamentation of articles of jewelry and the method of ornamenting the same; and it consists in taking a base of any desired form or configuration of transparent or translucent material, coating the same by any of the known methods of electro-deposition, and afterward cutting away portions of the metal covering, and, if desired, filling the designs cut out with some contrasting metal.

In carrying out our invention, we take a base of glass, crystal, or any other transparent or translucent substance, substantially of the form of the article to be produced, and deposit thereon by electrolysis the metal which is to form the seamless coating or covering. After a sufficient quantity of metal has been deposited on the foundation or base it is removed from the bath, and any fanciful design is formed thereon by means of a graver or on a wheel, thus exposing the transparent or translucent background and producing a very pleasing and beautiful effect.

In the drawings, *a* represents the base or form for the article; *b*, the metal covering, and *c* the cut-away portions forming the design. We sometimes fill in a portion or all of

the cut-away portions with some contrasting metal, either in intaglio or relief. This can be readily done by coating the metal, after the designs have been cut out, with some non-conducting material, and a second time exposing it in the bath.

The method we prefer in producing the seamless coating is to first cover the transparent base with some suitable cement or size and applying thereto before it is dry a bronze or metal powder, covering the entire surface. After this coating is dry it is then electroplated, in any usual or well-known manner, with gold, silver, or other metal or alloy that is capable of use in electro-deposition.

We do not wish to limit our invention to any particular article, as it is well adapted for many articles of jewelry, such, for example, as chains, centers for brooches, ear-rings, heads of scarf and other pins, balls and knobs for bracelets, heads for canes and umbrellas, and individual salts, &c.

By our invention we are enabled to produce many novel and pleasing effects, as it will allow a light and beautiful tracery of gold or silver, or both, over a transparent or translucent background, or even on a rich plain opaque color—as, a stone—for a background; and the article thus produced can be manufactured of the precious metals at comparatively small cost.

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

1. That improvement in the art of ornamenting articles of jewelry which consists in taking a base of crystal, glass, or analogous material of the form of the article to be produced, coating the same with metal by electrolysis, and afterward cutting away suitable designs or tracings through the metal, substantially as set forth.

2. That improvement in the art of ornamenting articles of jewelry which consists in taking a base of crystal, glass, or analogous material of the form of the article to be produced, coating the same with metal by electrolysis, cutting suitable designs or trac-

ings in the metal, and applying a contrasting metal in the design, or tracing in intaglio or relief, substantially at set forth.

3. An article of jewelry having a glass, crystal, or analogous base substantially of the form of the article, with a seamless coating or covering of metal, and designs, tracings, or ornaments cut through the metal, exposing the transparent base, substantially at set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

EDWARD A. THIÉRY.
CHARLES F. CROSELMIRE.

Witnesses:

CHARLES M. LANE,
OLIVER H. PERRY.