

C. FEST.  
Relief Jewelry.

No. 222,580.

Patented Dec. 16, 1879.

Fig: 1

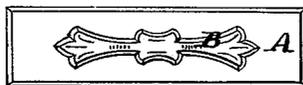


Fig: 2



Fig: 3

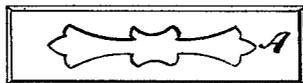


Fig: 4



Witnesses:

John C. Dunbridge  
Wm. G. C. Smith.

Inventor:

Charles Fest  
by his attorney  
A. Briesen

# UNITED STATES PATENT OFFICE.

CHARLES FEST, OF NEW YORK, N. Y.

## IMPROVEMENT IN RELIEF JEWELRY.

Specification forming part of Letters Patent No. 222,580, dated December 16, 1879; application filed June 30, 1879.

### *To all whom it may concern:*

Be it known that I, CHARLES FEST, of New York city, county and State of New York, have invented an Improvement in Cameo or Relief Jewelry, of which the following is a specification.

Figure 1 is a top view of a cameo made according to my invention; Fig. 2, a sectional view thereof; Fig. 3, an inverted face view thereof; and Fig. 4, a detailed face view of the relief portion of the same.

Similar letters of reference indicate corresponding parts in all the figures.

This invention has for its object to improve the construction and production of cameos and intaglios of various kinds, such as are made from mother-of-pearl, from precious stones, or other mineral substances.

My invention consists in cutting the projecting part out of the base or body of the gem or other substance by inclining cuts, so that the part cut out will have the shape of a truncated cone, the hole produced in the body of the gem or other substance being also shaped like a truncated cone, and in thereupon inserting the piece cut out from below into said hole of the body or base-piece, and in closing the cavity below with a plug of cement, metal, or equivalent material. The substance which was removed from the mineral by the act of cutting, or by the saw used in cutting, renders the piece cut out somewhat smaller than the hole in the body, so that afterward, when the piece is reinserted, it will project through and beyond the face of the body, and in that position it is cemented fast in the cavity to appear as an embossed projection on the face, the back of the body being made flush and fit for mounting by the cement or plate inserted below the projecting piece.

In the accompanying drawings, the letter A represents the base or body of a piece of jewelry made according to my invention, and B the relief part thereof.

The relief part B was originally part of the body A, its surface flush with the surface of the body A.

Now, in producing my improved article of manufacture I use a fine saw or other cutting-

tool, and cut the part which is to constitute the relief B out of the body A, holding the saw inclined outwardly, so that the part B will be slightly broader at the back or base than at the top, having in fact the form of a truncated cone, as shown in Fig. 2. The thickness of the saw in the act of cutting out the piece B makes it somewhat smaller than the hole from which it is cut, and therefore, when afterward the piece B is reinserted from below into the piece A it projects outward from the same, as shown in Fig. 2, and constitutes a relief-piece thereon, showing, however, on its face the same veins or features of beauty which characterize the face of the piece A. In this projecting position the piece B is partly sustained by contact against the inclined inner edges of the hole in the piece A, and it is further secured in place by a layer of cement, C, or piece of metal, which is put into the cavity below the piece B, as shown in Fig. 2, rendering the back of the plate B flush and fit for mounting.

The face of the piece B may be further ornamented by incisions or otherwise in any suitable manner.

In making ornaments of this kind great varieties may be obtained by joining a piece, A, of one substance to a piece, B, of another substance, and putting the piece B of one material into the piece A of another material, so that, for example, a white piece, A, of mother-of-pearl, when cut to produce the piece B, may be made to receive a dark piece, B, of mother-of-pearl cut in the same shape precisely from another dark piece, A, and the white piece B used in the dark piece A, thus producing novel and beautiful effects.

I claim—

As a new article of manufacture, relief jewelry composed of the pieces A, B, and C, the piece B being of truncated conical form and inserted into a somewhat larger cavity of corresponding shape of the piece A, the back of A being made flush with C, substantially as specified.

CHARLES FEST.

Witnesses:

F. V. BRIESEN,  
T. B. MOSHER.