

(No Model.)

T. PEITER.

ART OF INCRUSTING IN RELIEF ON PRECIOUS STONES.

No. 305,957.

Patented Sept. 30, 1884.

fig. 1.

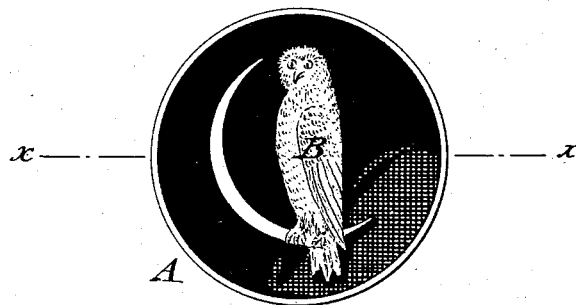
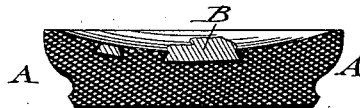


fig. 2.



WITNESSES:

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ART OF INCRUSTING IN RELIEF ON PRECIOUS STONES.

SPECIFICATION forming part of Letters Patent No. 305,957, dated September 30, 1884.

Application filed April 24, 1884. (No model.)

To all whom it may concern:

Be it known that I, THEODORE PEITER, of the city, county, and State of New York, have invented certain new and useful Improvements in the Art of Incrusting in Relief on Precious Stones, of which the following is a specification.

Precious stones were heretofore incrustated by engraving or etching the design into the surface of said stones to a certain depth, then pressing a thin plate of gold or other metal upon the engraved or etched surface, and sawing or cutting the design from said plate according to the outlines marked thereon. The small plates of gold or other metal thus sawed out are then inserted into the depressed portions of the precious stones and retained therein, as the edges of the depressed portions have received a certain degree of undercut. The incrustated metal portions are then finished by engraving, filing off, and otherwise. The incrustations obtained thereby are flush with the surface of the stone.

The object of this invention is to provide an improved process or art of incrusting in relief on precious stones; and the invention consists in engraving the depressed portions on the precious stone according to the desired design, transferring the same to a plate of metal of greater thickness than the depth of the depressed portion, then sawing or cutting out said metal filling and inserting it into the depressed portions, and finishing the projecting portion of the metal in relief in a suitable manner.

In the accompanying drawings, Figure 1 represents a front view of a precious stone provided with incrustations in relief by my improved method, and Fig. 2 is a vertical transverse section of the same on line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

In carrying out my invention a piece, A, of onyx or other precious stone is first engraved or etched in the usual manner, so as to produce depressed portions, according to the design to be produced. The edges of the de-

pressed portions are undercut in the manner well known in incrusting. Pieces of gold or other metal of greater thickness than the depth of the depressed portions are then placed upon the same and the outlines of the depressed portions transferred thereon by pressure. The metal is then cut or sawed along said outlines, whereby a piece or pieces, B, of gold or metal is obtained that fit into the depressed portions of the stone. The piece or pieces B are then inserted into the depressed portion or portions and retained in position by the undercut edges of the same. As the piece of metal is thicker than the depth of the depressed portion, it projects in relief from the surface of the stone, and is then finished by engraving its surface. Incrustations may thus be produced on precious stones either entirely in relief by my improved method or partly in relief and partly flush with the stone by combining my method with the old method of incrusting. A very ornamental effect is thereby imparted to the incrustated articles, especially when incrusting in relief and plain incrusting are properly combined.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The art of incrusting precious stones in relief, which consists in engraving the surface of the stone and inserting into the engraved and undercut portions a metal plate of the same shape but of greater thickness than the depth of the depressed portion, substantially as set forth.

2. A precious stone having engraved and undercut depressions, and a metal filling piece or pieces projecting in relief above the surface of the stone, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

THEODORE PEITER.

Witnesses:

PAUL GOEPEL,
SIDNEY MANN.