

(Model.)

G. E. ADAMS.
Manufacture of Jewelry.

No. 238,073.

Patented Feb. 22, 1881.

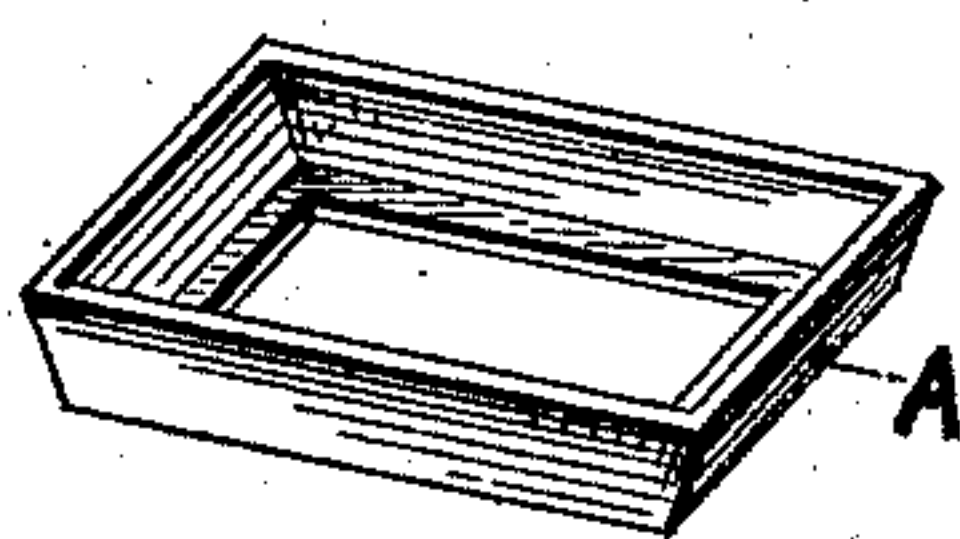


FIG. 1.

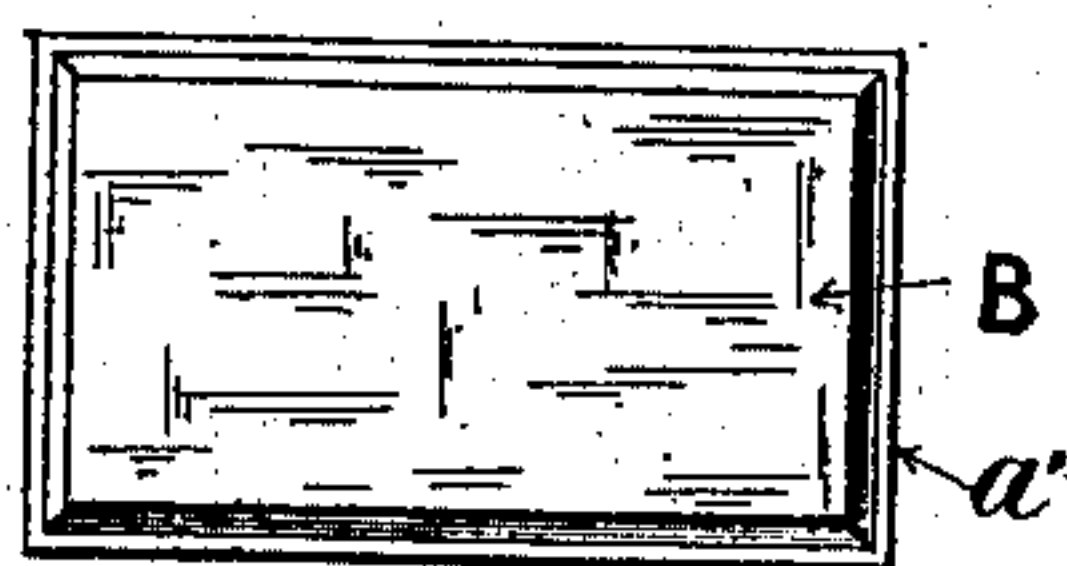


FIG. 2.

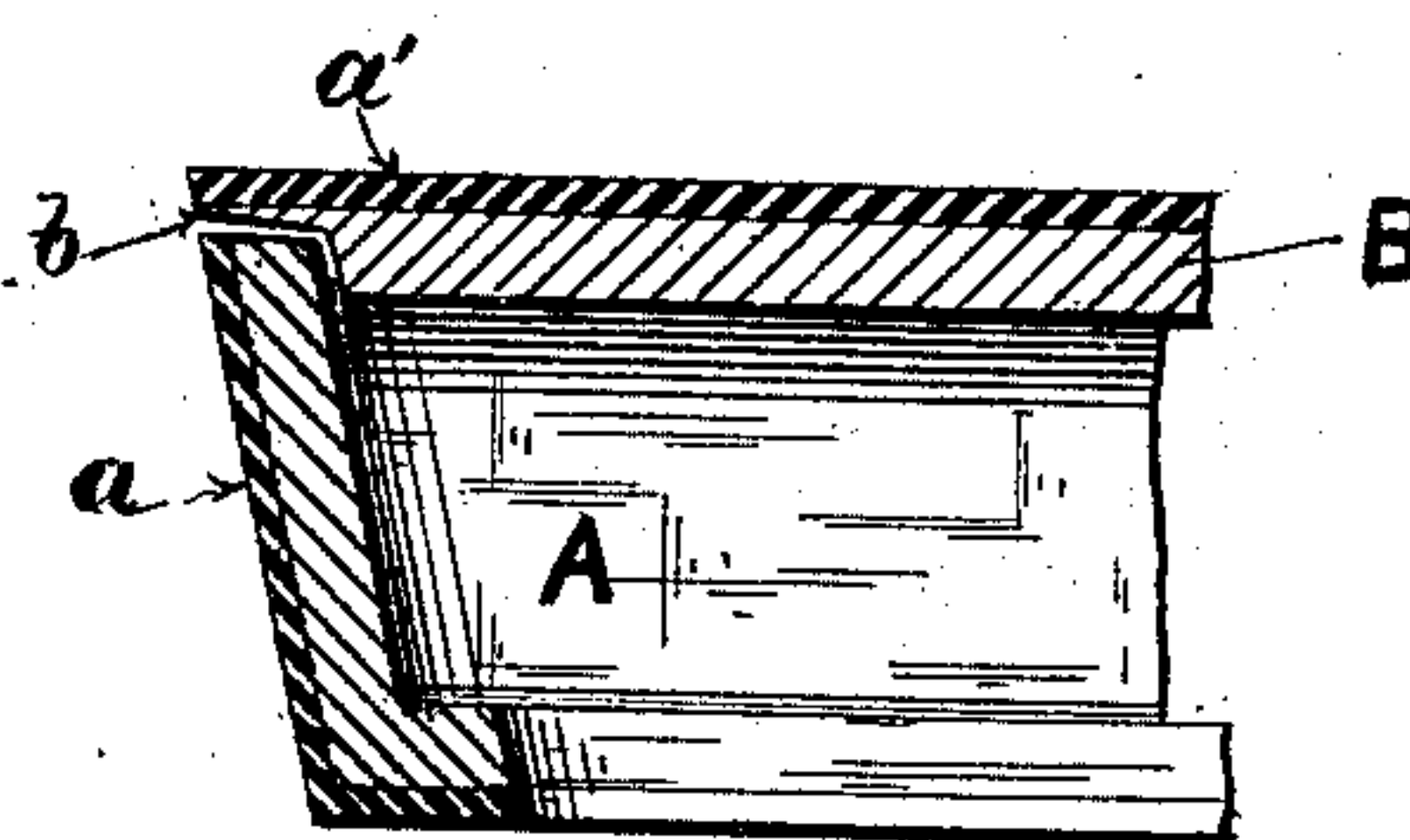


FIG. 3.

WITNESSES.

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GEORGE E. ADAMS, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO WILLIAM S. GODFREY, OF SAME PLACE.

MANUFACTURE OF JEWELRY.

SPECIFICATION forming part of Letters Patent No. 238,073, dated February 22, 1881.

Application filed December 21, 1880. (Model.)

To all whom it may concern:

Be it known that I, GEORGE E. ADAMS, of the city and county of Providence, in the State of Rhode Island, have invented a new and useful Improvement in the Manufacture of Jewelry; and I declare the following to be a specification thereof, reference being had to the accompanying drawings.

My invention consists of a combination of a rolled-gold plate or other plated stock with a rim, so that the backing of base metal is practically inclosed by the gold plate. Such a production is a close imitation of gold jewelry.

Figure 1 is a perspective view of the rim. Fig. 2 is a view of the top inverted. Fig. 3 is an enlarged vertical longitudinal section of a vertical transverse section of the rim with the top attached.

In the accompanying drawings, A is the rim, struck up from plated stock. B is the base metal of the top. *b* is the base metal in view at the intersection of the edge of the top with the gold plate *a*. *a* is the plate of the rim. *a'* is the plate of the top.

In manufacturing a button or other article of jewelry having a rim which it is desired to cover with a plated top, a matrix of the size and shape of the interior of the top edge of the rim A is sunk in a die. Pieces of rolled plated stock of the shape of the matrix, and of just the size to be inclosed therein, are cut with perpendicular edges. A piece of stock so formed is of a thickness slightly greater than the depth of the matrix, and is placed therein with the gold surface uppermost. Instead of employing an ordinary plunger, the flat face of a piece of steel is caused to descend upon the piece of stock in the matrix by the use of press or otherwise, whereby that part of the rolled or other stock which projects above the surface of the die is laterally extended over and beyond the edges of the matrix and upon the surface of the die, the upper part of which extension is gold, and the lower part of which may or may not contain base metal. If any portion of the stock extending above the surface of the die is composed of base

metal, then the under part of the extension is composed more or less of the same; but if the projection above the surface of the die is gold only, then the extension will be the same.

Fig. 2 is a view of the top so formed. *a'* is the extension of the gold plate, probably containing some of the base metal. The top is fastened upon the rim A, Fig. 1, by soldering the extension to the edge of the rim. The edge B, Fig. 2, of the base metal does not necessarily come into contact with any part of the inner surface of the rim. There may be an intervening space.

B *b*, Fig. 3, is a section of the top ready to be placed in position on a section of the rim. *b* indicates the extension of the base-metal plate B over the edge of the rim A.

Formerly similar articles of jewelry have been manufactured by sweating or soldering a gold plate upon a rim filled with soft solder—a substance forming an imperfect foundation upon which to place a gold plate; by soldering a base-metal plate upon the edges of the rim, and then soldering upon the base metal a plate of gold, whereby the full edge of the base metal is left exposed; by inclosing within the edges of the rim a plate of base metal and soldering thereto and over the edge of the rim a gold plate. My improvement practically secures the same result as the latter, even if some of the base metal appears on the surface, for the portion appearing is so limited that it cannot be discovered by any ordinary inspection.

I claim as a novel and useful invention and desire to secure by Letters Patent—

In an article of jewelry composed of the rim A, base-metal plate B, and gold plates *a a'*, the lateral projections *b*, formed on the said plates B and made to extend on all sides beneath the edge of the plate *a'*, to cover the edge of the rim A, substantially as specified.

GEORGE E. ADAMS.

Witnesses:

IRVING CHAMPLIN,
WALTER C. SMITH.