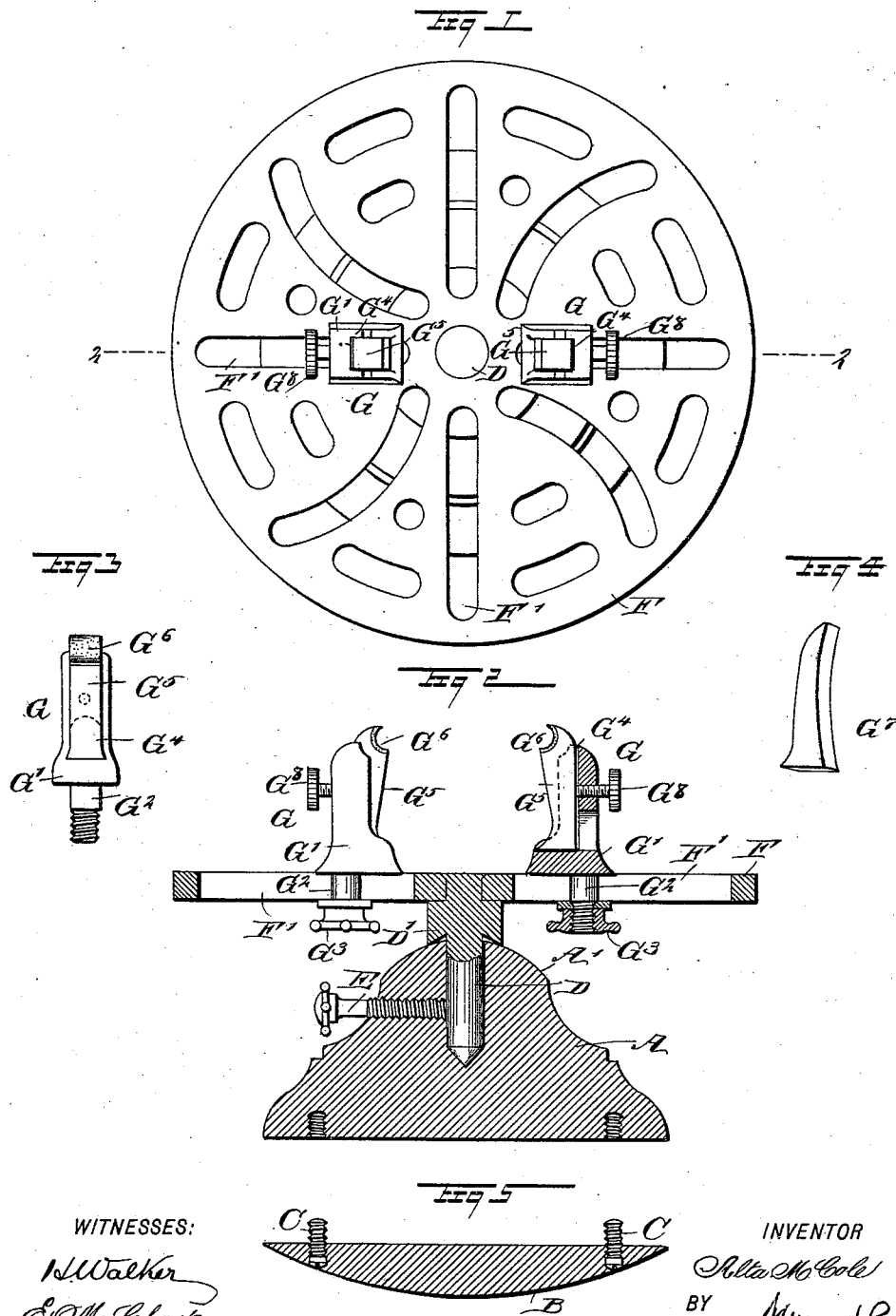


(No Model.)

A. M. COLE.  
CLAMP.

No. 522,651.

Patented July 10, 1894.



WITNESSES:

*N. Walker*  
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# UNITED STATES PATENT OFFICE.

ALTA MAY COLE, OF ASHEVILLE, NORTH CAROLINA.

## CLAMP.

SPECIFICATION forming part of Letters Patent No. 522,651, dated July 10, 1894.

Application filed October 7, 1893. Serial No. 487,497. (No model.)

*To all whom it may concern:*

Be it known that I, ALTA MAY COLE, of Asheville, in the county of Buncombe and State of North Carolina, have invented a new and Improved Clamp, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved clamp, which is simple and durable in construction, and more especially designed for the use of engravers, to securely hold plates, brushes, mirrors and other articles to be engraved, the clamp permitting the engraver to conveniently and with great ease engrave the article as required.

The invention consists of certain parts and details and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of the improvement. Fig. 2 is a sectional side elevation of the same on the line 2—2 of Fig. 1. Fig. 3 is a face view of one of the clamping jaws; and Fig. 4 is a perspective view of a modified form of movable face plate for the jaw; and Fig. 5 is a sectional side elevation of an auxiliary base.

The improved clamp is provided with a suitably constructed base A, formed either with a flat bottom, as illustrated in Fig. 2, or adapted to be provided with a supplementary base B, made plano-convex and having its plane surface secured to the under side of the base A by means of set screws C.

In the base A is formed a recess engaged by a pin D, adapted to be secured in place by a set screw E, to prevent the pin and the face plate F carried by the said pin, from turning. The pin D is provided on the under side of the face plate F with an enlargement D' having a sharp circular edge adapted to rest on the curved, upper part A' of the base A, so as to permit of conveniently turning the face plate F with the pin D without causing much friction.

In the face plate F are arranged slots or apertures F' adapted to be engaged by clamps G, mounted to slide inward or outward in the

respective slot, according to the article to be supported by the clamps and face plate.

Each clamp G is provided with a body G' resting on the upper surface of the face plate F and provided on its under side with a threaded pin G<sup>2</sup> extending through the corresponding slot F', and engaged at its lower end by a nut G<sup>3</sup> adapted to abut against the under side of the face plate F to securely fasten the clamp G in place. The body G' is provided on its inner side with a seat G<sup>4</sup> for the removable and movable face piece G<sup>5</sup>, preferably having at its upper end a segmental recess G<sup>6</sup>, to engage the side of the article to be engraved. As illustrated in Fig. 4, at G<sup>7</sup>, the movable face piece may be curved at its inner edge to conveniently engage such articles as cups, silver goblets, pitchers, and like articles. The lower end of each movable face piece is preferably formed with a dovetail fitted to slide in a correspondingly shaped dovetail groove formed in the body of the jaw. A set screw G<sup>8</sup> screws in the body G' to engage the back of the movable face piece G<sup>5</sup> or G<sup>7</sup>, to move the same inward in engagement with the article so as to securely hold the latter in place between two, three, four or more clamps arranged in the slots F'.

In using the clamp the jaws G are moved sufficiently far apart to permit the engraver to place the article on the several face pieces, after which the nuts G<sup>3</sup> are secured in place, and then the set screws G<sup>8</sup> are screwed up so as to firmly move the movable face piece G<sup>5</sup> or G<sup>7</sup> into engagement with the edge or edges of the article to be engraved. By this arrangement the article is securely held in place to permit the engraver to conveniently work on the face of the article with engraving tools. As the face plate F can be turned on the base A, any desired point of the article can be readily and conveniently brought under the operating tool. When using the supplementary base B, the entire device can be turned on the curved surface of the said supplementary base, the latter resting on the usual ring pad.

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

1. In a clamp, the combination with a base,

and a face plate mounted to revolve thereon, of clamp bodies adjustably secured to the face plate and provided with seats on their inner faces, and face pieces secured in the  
5 seats of the bodies, and screws for adjusting said face pieces, substantially as described.

2. In a clamp, the combination with a slotted face plate, of clamps, each consisting of a body having a seat on its inner face and provided on its under side with a threaded pin  
10 projecting through a slot of the face plate and engaged by a nut, and a face piece fitting in the seat of the body and engaged by a set screw in the body, substantially as described.

3. An engraver's clamp, comprising a base 15 having a recess in its top, a slotted face plate provided with a pin projecting into the recess of the base, and clamps secured to the face plate, each consisting of a body having a seat in its inner face and provided with a shank 20 projecting into the slot of the face plate, and a face piece adjustably secured in the seat of the body, substantially as herein shown and described.

ALTA MAY COLE.

Witnesses:

EDWARD E. ELLIOTT,

MARY E. ELLIOTT.