

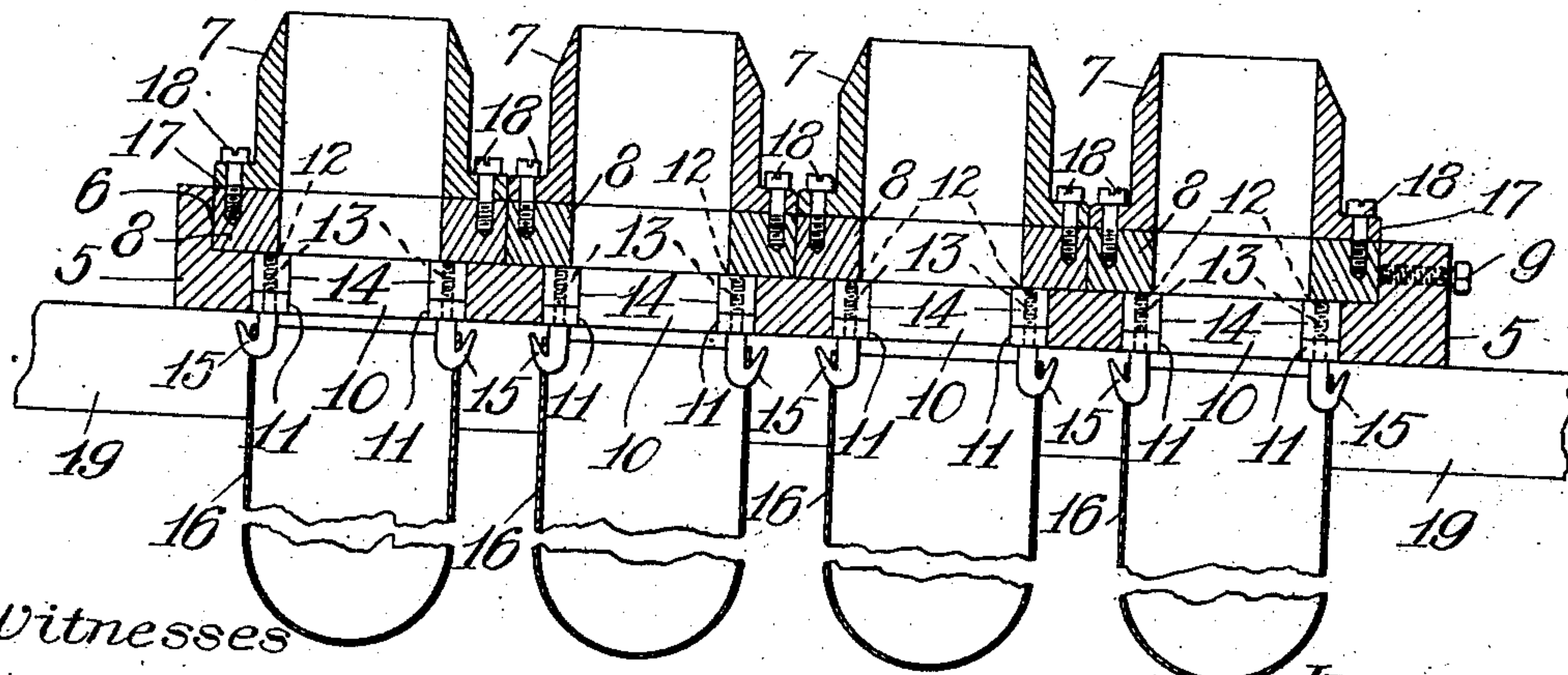
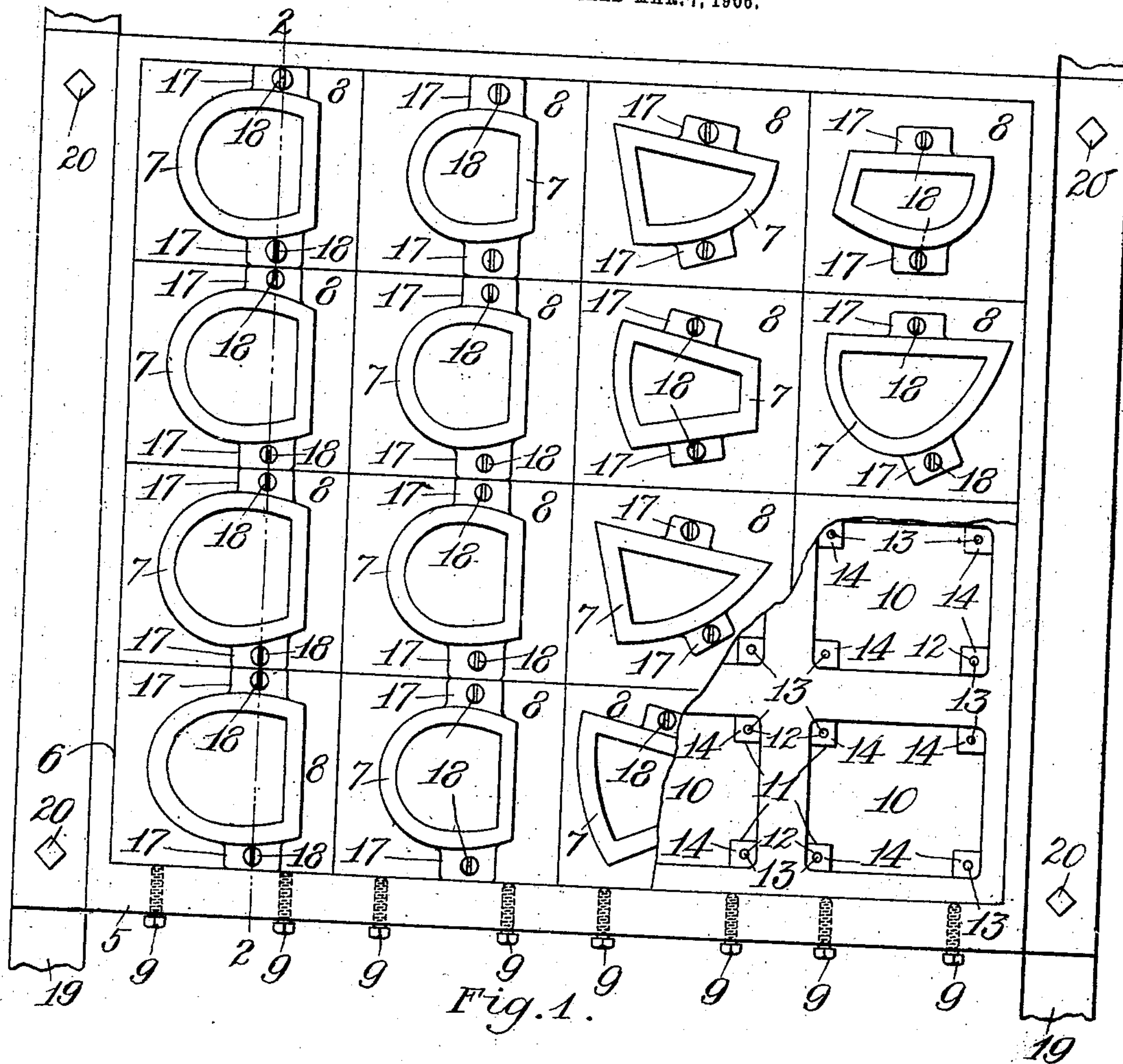
No. 840,147.

PATENTED JAN. 1, 1907.

J. J. MALLOY.

DIE PLATE.

APPLICATION FILED MAR. 7, 1906.



Witnesses

Ernest A. Telfer  
J. Ernest May.

Fig. 2.

Inventor  
John J. Malloy  
by his attorney, Charles S. Fording.



# UNITED STATES PATENT OFFICE.

JOHN J. MALLOY, OF BROCKTON, MASSACHUSETTS.

## DIE-PLATE.

No. 840,147.

Specification of Letters Patent.

Patented Jan. 1, 1907.

Application filed March 7, 1906. Serial No. 304,665.

*To all whom it may concern:*

Be it known that I, JOHN J. MALLOY, a citizen of the United States, residing at Brockton, in the county of Plymouth and State of Massachusetts, have invented new and useful Improvements in Die-Plates, of which the following is a specification.

This invention relates to a die-plate for holding a plurality of cutting-dies, such as are used for cutting heel-lifts; and the objects are, first, to provide a die-plate for holding a plurality of interchangeable dies which may be arranged and rearranged in said plate at will to suit the convenience of the operator, and, second, to provide simple, efficient, and inexpensive means for clamping said dies in said plate.

The invention consists in the combination and arrangement of parts set forth in the accompanying specification and particularly pointed out in the claims thereof.

Referring to the drawings, Figure 1 is a plan view of my improved die-plate having dies therein, a portion of said dies being broken away and said die-plate mounted on supports, said supports partly broken away. Fig. 2 is a sectional elevation taken on line 2 2 of Fig. 1 looking toward the right.

Like numerals refer to like parts throughout both views of the drawings.

In the drawings, 5 is a die-plate provided with a recess 6, adapted to receive a plurality of dies 7, having bases 8 removable therefrom. The bases 8 are identical in exterior outline, so that they may be interchanged at will to suit the convenience of the operator. The dies 7 are of different shapes and sizes, the first two rows from the left, Fig. 1, being "whole-heel-lift" dies, the remainder of said dies being of various forms for cutting portions of heel-lifts. A plurality of set-screws 9, arranged in pairs, clamp the bases 8 of the dies 7 in the die-plate 5 by forcing the rows of said bases against the wall of the recess 6, which is opposite to said set-screws. The die-plate 5 is provided with a plurality of apertures 10, leading from the recess 6, and also with a plurality of lugs 11, projecting into said apertures, said lugs provided with perforations 12, adapted to receive bolts 13. The bolts 13 are provided with nuts 14, having engagement with the walls of the apertures 10, whereby said nuts are prevented from turning on said bolts. The bolts 13 are provided with hooks 15, preferably formed integral therewith. A plurality of recepta-

cles 16 are suspended from the hooks 15, said receptacles preferably formed of textile material. The dies 7 are provided with lugs 17 and are clamped to their bases by clamping-screws 18, having screw-threaded engagement with the bases 8 of said dies. The die-plate 5 is supported on stringers 19 and is fastened thereto by lag-screws 20.

It is common practice to cut heel-lifts for shoes from scrap stock, the pieces of said stock varying in size and shape. The operator or lift-cutter takes said pieces and lays them one by one on the dies, which are suitable in shape and size for the individual pieces, striking each piece a blow with a heavy mallet, and thereby cutting from said piece a heel-lift or a portion of a heel-lift, according to the shape of die used. When the pieces of scrap stock are running large, it is desirable to have in the die-plate a great number of large sizes of dies, and conversely, when the pieces of scrap stock are running small it is desirable to have smaller dies in said die-plate.

In the use of my improved die-plate the dies 7 may be easily and quickly removed and rearranged or may be removed and replaced by other dies at will, this resulting in a great saving of time. The clamping-screws 9 by clamping whole rows of the dies 7 in the die-plate 5 simplify the work of replacement or rearrangement. Should one of the bolts 12 become broken, the removal and replacement of the same are rendered easy by removing the die which is over said bolt without disturbing any of the rest of the dies or removing the die-plate 5 from its supports.

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

1. In combination, a die-plate provided with a recess therein, an aperture leading from said recess, and a plurality of lugs projecting into said aperture, said lugs provided with perforations therein, a die located in said recess, means for clamping said die in said die-plate, a plurality of bolts adapted to pass through said perforations, a plurality of nuts for said bolts, and a receptacle suspended from said bolts.

2. In combination, a die-plate provided with a recess therein, an aperture leading from said recess, and a plurality of lugs projecting into said aperture, said lugs provided with perforations therein, a die located in said recess, means for clamping said die in

said die-plate, a plurality of bolts adapted to pass through said perforations, a plurality of nuts for said bolts, said nuts adapted to engage the walls of said aperture, and a receptacle suspended from said bolts.

5 3. In combination, a die-plate provided with a recess therein, a plurality of interchangeable dies having bases separable therefrom located in said recess and abutting edge  
10 to edge, means for clamping said bases in said

die-plate one against another, and a plurality of receptacles suspended from beneath said die-plate.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses. 15

JOHN J. MALLOY.

Witnesses:

CHARLES S. GOODING,  
LOUIS A. JONES.