

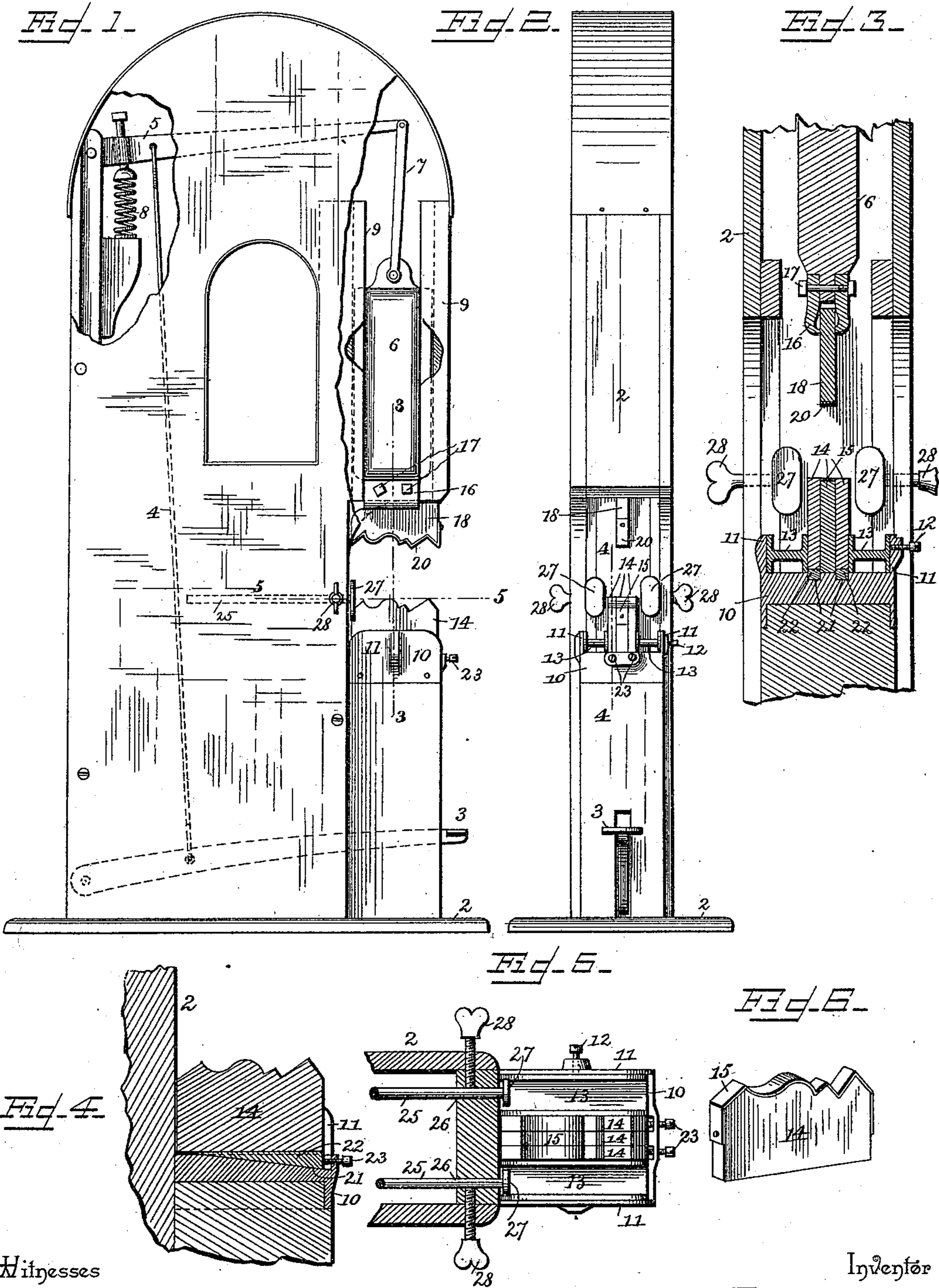
(No Model.)

J. W. YATES.

MACHINE FOR MAKING SHEET METAL MOLDINGS.

No. 438,970.

Patented Oct. 21, 1890.



Witnesses

Chas. H. Curand

Wm. Bagger

Inventor

John W. Yates,

By his Attorneys,

C. A. Snow & Co.

# UNITED STATES PATENT OFFICE.

JOHN W. YATES, OF NEW DECATUR, ALABAMA.

## MACHINE FOR MAKING SHEET-METAL MOLDINGS.

SPECIFICATION forming part of Letters Patent No. 438,970, dated October 21, 1890.

Application filed April 23, 1890. Serial No. 349,122. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN W. YATES, a citizen of the United States, residing at New Decatur, in the county of Morgan and State of Alabama, have invented a new and useful Machine for Making Sheet-Metal Moldings, of which the following is a specification.

This invention relates to an improved machine for making sheet-metal moldings; and it consists in the improved construction, arrangement, and combination of the parts of the machine, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, Figure 1 is a side view of a machine embodying my improvements, parts of the casing having been removed for the purpose of showing the interior construction. Fig. 2 is a front view of the same. Fig. 3 is a sectional view taken on the line 3 3 in Fig. 1. Fig. 4 is a sectional view taken on the line 4 4 in Fig. 2. Fig. 5 is a sectional view taken on the line 5 5 in Fig. 1. Fig. 6 is a detail view of one of the blocks or molds.

Like numerals of reference indicate like parts in all the figures.

A suitable frame or casing 1, supported upon a base 2, is provided with bearings for an operating-treadle 3, which is connected by a rod 4 with a lever 5, to the outer end of which a vertically-sliding weight or hammer 6 is connected by means of a pivoted rod or pitman 7. A suitably-arranged spring 8 serves to keep the lever 5, weight 6, and treadle 3 normally in a raised position. The weight 6 slides between suitable guides 9, which form a part of the frame or casing.

10 designates an anvil-block, which is mounted upon the base in front of the frame and directly below the vertically-sliding weight or hammer. Said anvil-block is provided at its upper end with flanges 11, one of which is provided with a set-screw 12 for the purpose of retaining in position the molding-blocks and spacing-blocks which are to be inserted between said flanges, and will be presently more fully described. The spacing-blocks, which are designated by 13, are H-shaped in cross-section, and the molding-blocks

14, which are three in number, are cut from hard wood to the desired pattern. One of said blocks—the central one—is provided at its upper edge with a facing-strip 15 of metal. The vertical sliding weight is provided at its lower end with clamping-plates 16, secured by means of transverse bolts 17, and serving to secure in position the shaping-plate 18, which is cut to match the molding plates or blocks 14, and which is provided, like the central molding-block 14, with a metallic facing-strip 20.

The anvil-block is provided in its upper side or face with beveled or inclined grooves 21, which are arranged directly under the outer molding-blocks 14, and in which are seated the wedges 22. Set-screws 23, mounted in the anvil-block, serve to bear against said wedges, which may thus be adjusted to raise or lower the blocks 14 supported thereon.

Gage-pins 25, mounted in perforations 26 in the front side of the frame, are provided at their front ends with heads 27, which serve as stops to regulate the position of the sheet of metal which is being operated upon. Set-screws 28 serve to retain the said gage-pins at any desired adjustment.

The operation and advantages of this invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. The initial expense for the necessary pattern-blocks is trifling, said blocks being manufactured, as stated, of hard wood, the blocks, which do the actual shaping being provided with facing-strips of metal, whereby they are rendered more durable. By adjusting the outer blocks 14 slightly above the central block a circular molding may be formed of any desired diameter according to the distance between the upper faces of the outer and the central blocks 14. The gage-pins 25 may be readily adjusted to form a seat or guide for the sheet metal which is being operated upon, and the machine may be conveniently operated by a single man, the weight or hammer being operated by the treadle, thus leaving both hands of the operator free to manipulate the sheet of metal which is being operated upon.

The general construction of the machine is very simple and inexpensive, and it will occupy but little room.

Having thus described my invention, what I claim is—

1. The combination of the anvil-block having flanges at its upper end, the set-screw in one of said flanges, and the spacing-blocks and the molding-blocks constructed of hard wood, the central one of said molding-blocks being provided with a metallic facing-strip, substantially as set forth.

2. The combination of the anvil-block, the three molding-blocks mounted thereon in contact with each other, the metallic facing-

strip upon the central molding-block, and means for vertically adjusting the two outer molding-blocks, substantially as set forth.

3. The combination, in a machine for making sheet-metal moldings, of the molding-block and the shaping-plate, both constructed of hard wood and provided with metallic facing-strips, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JOHN W. YATES.

Witnesses:

D. W. BARTON,

F. WOODMANSEL.