

No. 702,753.

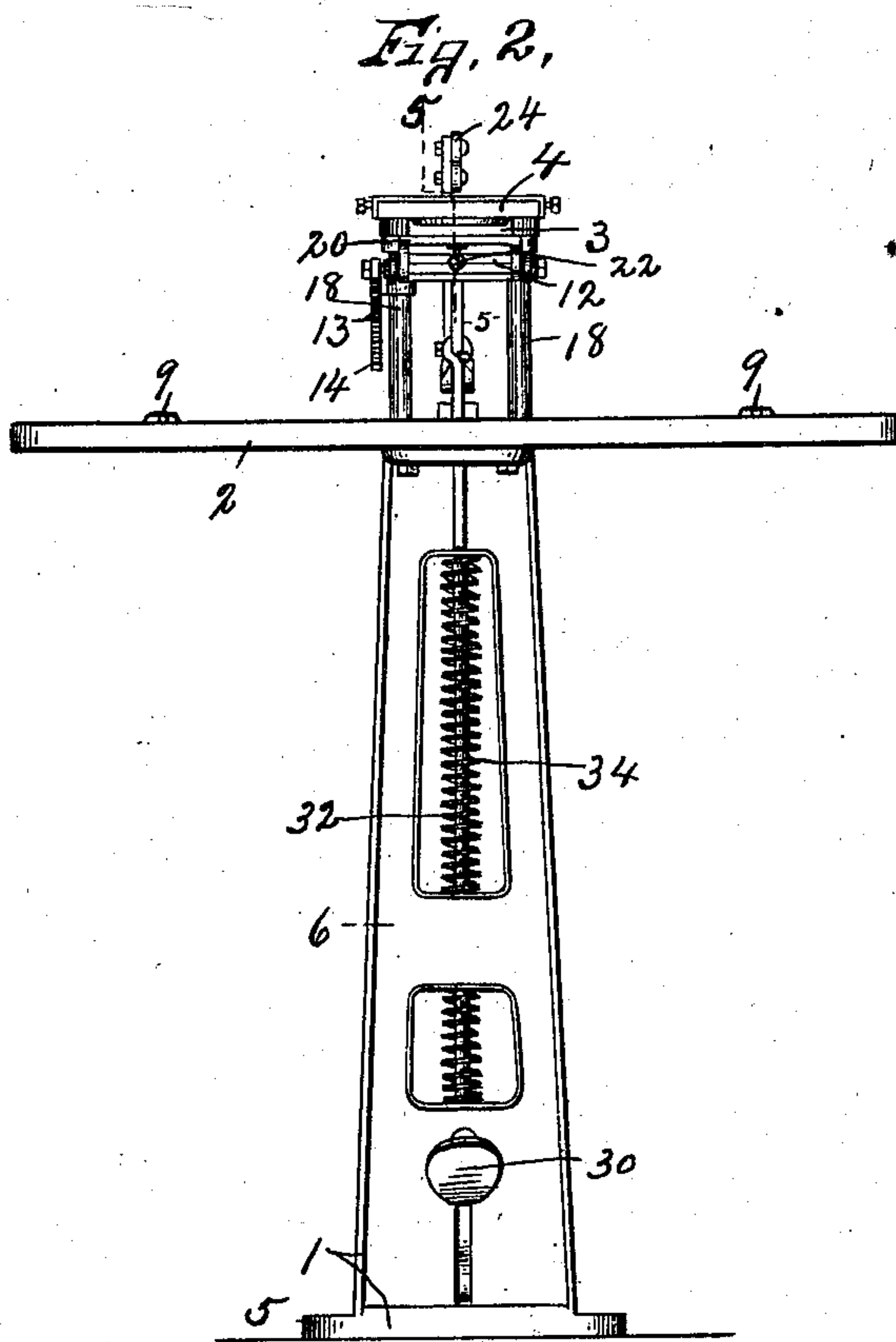
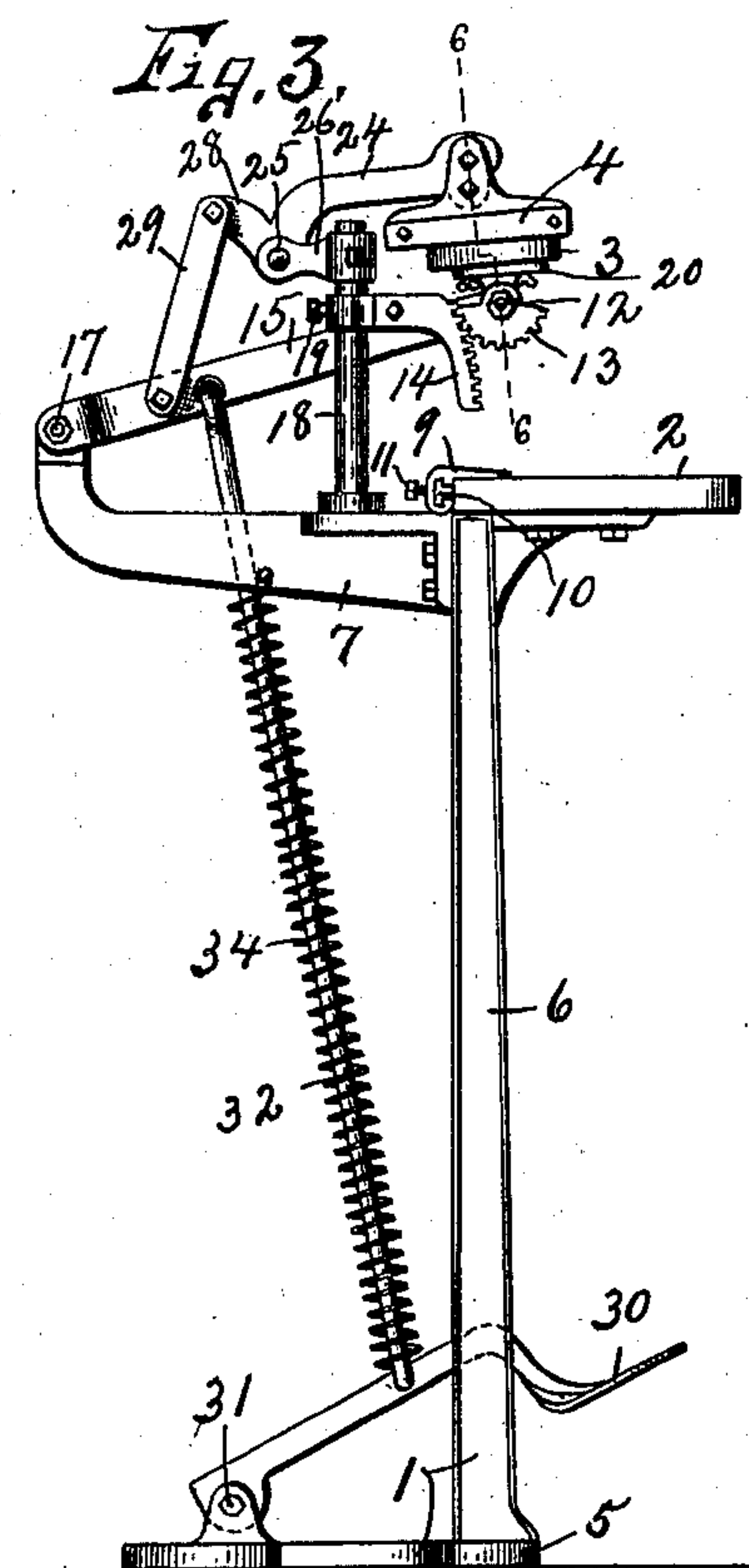
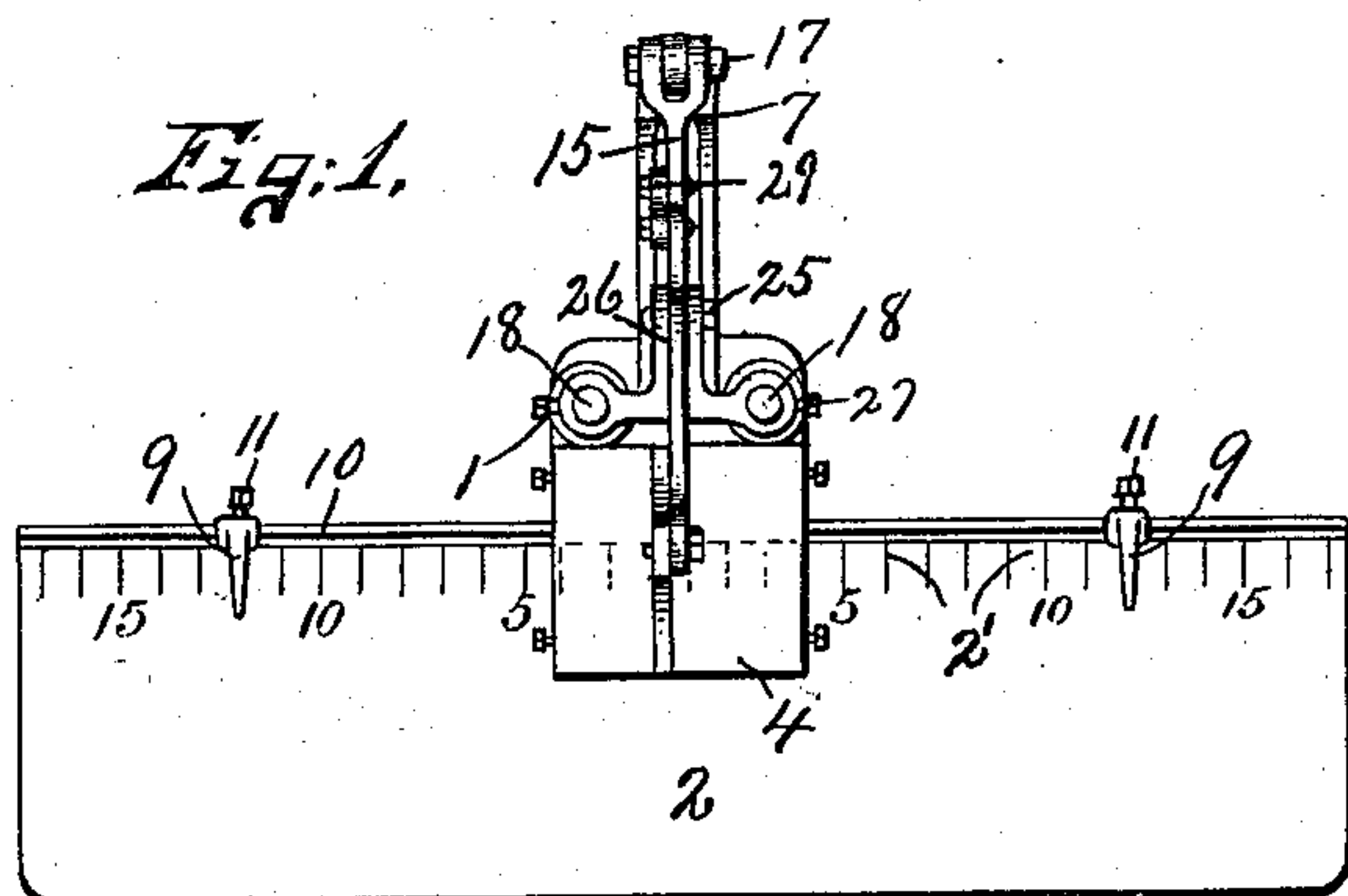
Patented June 17, 1902.

H. WATKINS.
STAMPING MACHINE.

(Application filed May 31, 1901.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES:

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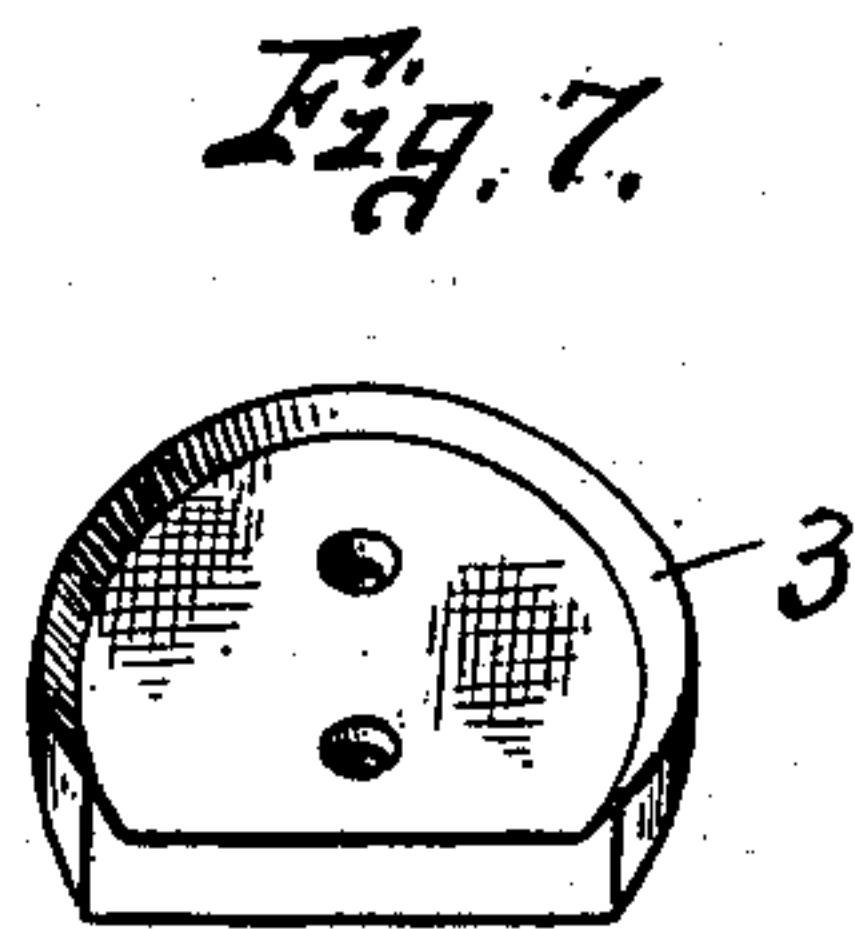
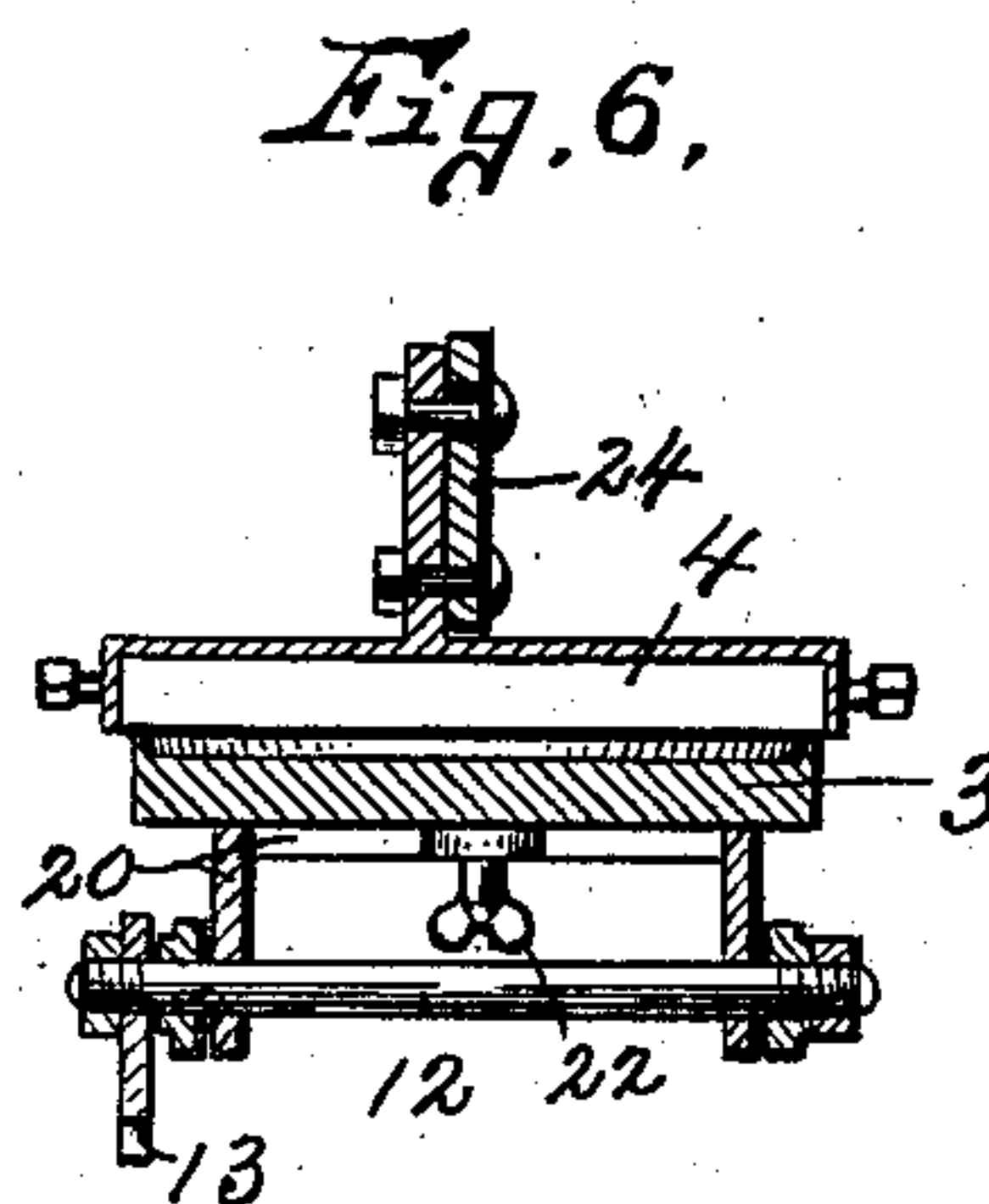
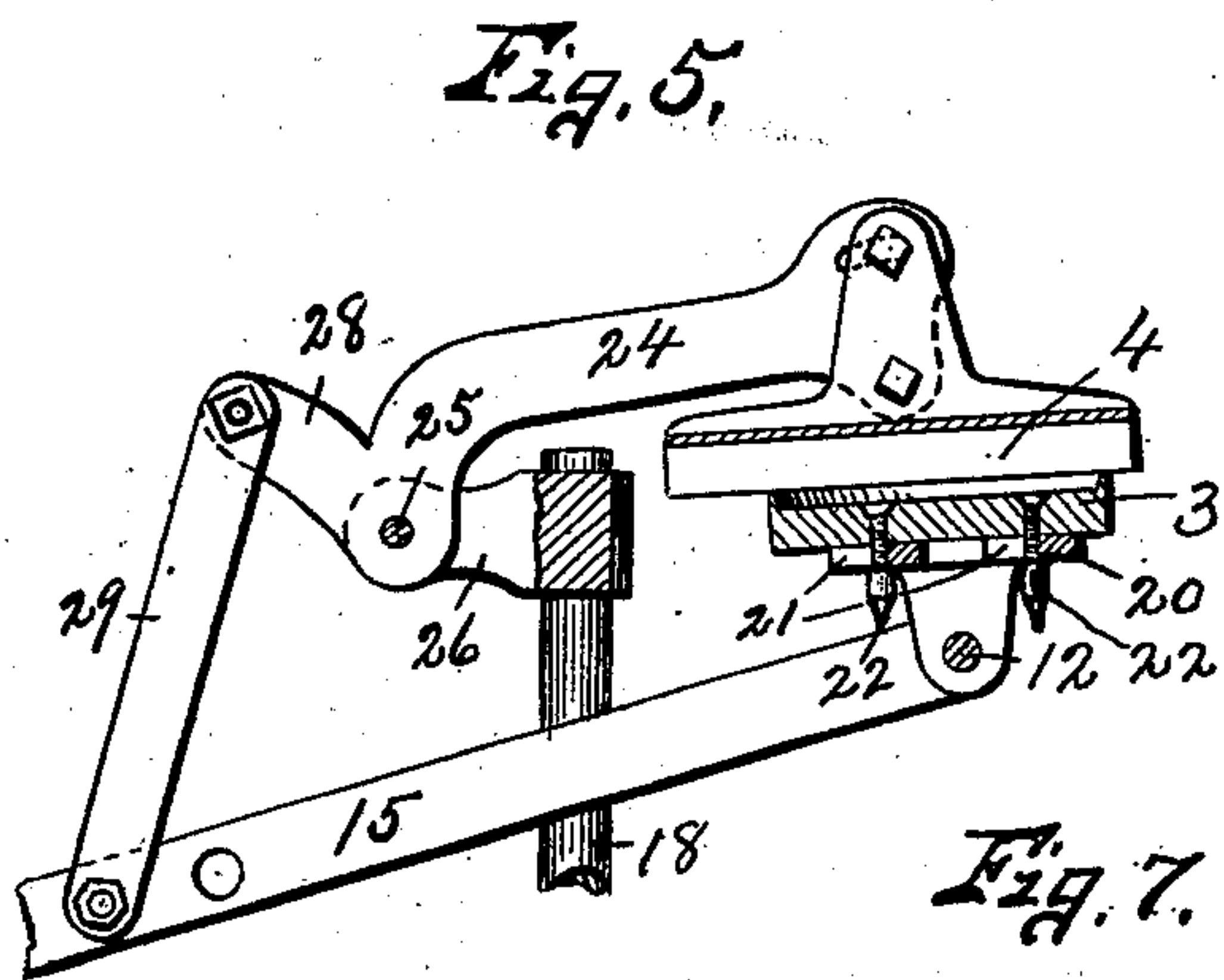
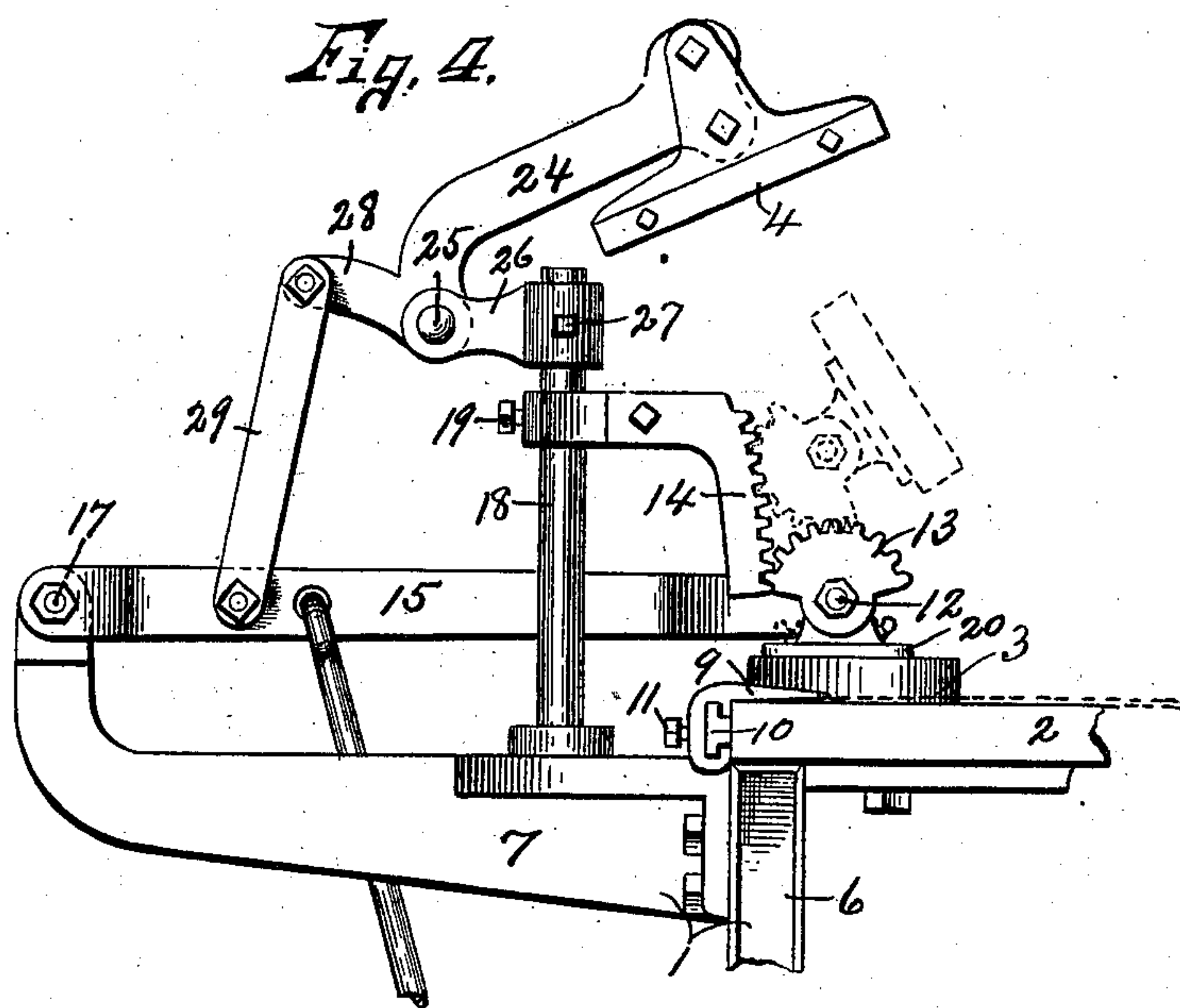
Patented June 17, 1902.

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STAMPING MACHINE.

(Application filed May 31, 1901.)

(No Model.)

2 Sheets—Sheet 2.



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UNITED STATES PATENT OFFICE.

HENRY WATKINS, OF UTICA, NEW YORK, ASSIGNOR TO EGBERT M. ANTISDEL, OF UTICA, NEW YORK.

STAMPING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 702,753, dated June 17, 1902.

Application filed May 31, 1901. Serial No. 62,629. (No model.)

To all whom it may concern:

Be it known that I, HENRY WATKINS, of Utica, in the county of Oneida, in the State of New York, have invented new and useful
5 Improvements in Stamping-Machines, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to improvements in
10 stamping-machines.

The object of this invention is to produce a simple and compact machine operated either manually or by any other well-known power-transmitting mechanism for marking any de-
15 sired form or outline upon garments or other articles.

Another object is to provide means whereby the stamping-die is alternately and successively inked before being moved into contact
20 with the article to be stamped.

A further object is to so arrange the inking mechanism and movable die that one part forms a suitable stop for the other for hold-
25 ing the same in their inoperative positions.

A still further object is to provide means whereby the die is inverted during its move-
30 ment toward and away from a suitable bed-plate for supporting the articles to be stamped for alternately contacting the stamping-sur-
face of the die with the inking-pad and arti-
cle to be stamped.

Another object is to provide a bed-plate with suitable graduations and index-fingers, whereby the articles to be stamped may be
35 always arranged in the same position relative to the die.

To this end the invention consists in the combination, construction, and arrangement of the parts of a stamping-machine, as here-
40 inafter fully described, and pointed out in the claims.

Referring to the drawings, Figures 1, 2, and 3 are respectively top plan, front, and side elevations of a stamping-machine embodying
45 the various features of my invention, the stamping-die and printing-pad being shown in their inking positions or in contact with each other. Fig. 4 is an enlarged elevation of the upper portion of the machine seen in Figs.
50 2 and 3, the stamping-die being shown in its operative position in the act of imprinting a

form or outline upon the article to be stamped and the inking-pad being shown as rocked upwardly. Figs. 5 and 6 are sectional views taken on line 5 5, Fig. 2, and 6 6, Fig. 3. Fig. 55 7 is an isometric perspective view of a detached stamping-die for marking the outline of the neck of the garment.

Similar reference characters indicate corre-
60 sponding parts in all the views.

Although I have shown in the drawings a machine having a die adapted to stamp the form of the neck of garments, yet it will be obvious that this machine may be adapted for various other uses and that the form of
65 the die may therefore be changed or different dies attached to the machine for marking or stamping the desired outline upon any article. In fact it is apparent that instead of
70 using the die for the purpose of marking the articles it may be provided with a cutting edge adapted to cut the article to the desired form.

As seen in the drawings, this invention consists of a supporting-frame 1, a bed-plate 2,
75 mounted on the frame, stamping-die 3, movable toward and away from the bed-plate, and an inking-pad 4.

The frame 1 may be of any desired form, size, or construction, being here illustrated
80 as provided with a base 5, an upright standard 6, and a rearwardly-extending bracket 7.

The bed-plate 2 is mounted upon the upper end of the upright standard 6, preferably projecting forwardly therefrom for the purpose
85 of receiving and supporting the garments or other articles to be stamped, the upper face of said bed-plate being substantially flat and is provided with a scale 2', graduated relative to the printing position of the die. The
90 graduations are preferably numbered in inches or other denominations from the center or printing-point, as zero, in either direction toward the opposite ends of the bed-plate. These graduations cooperate with
95 suitable fingers 9, which are adjustable lengthwise of the bed-plate, being usually arranged at the rear of the plate and their forward ends being pointed and movable along the graduations of the scale 8 for permitting
100 the operator to stamp the articles at a predetermined position—as, for instance, when

the device is used for marking the outline of the neck of garments adapted to be subsequently cut on said mark the garment is straightened out upon the bed-plate, with the shoulders alined with the fingers 9, said fingers being previously adjusted to the same graduation at either side from the point of stamping, these numbers or graduations representing the width across the shoulders of the garment, and the die will therefore make an impression or mark upon the garment at a point substantially midway between the shoulder-tips or fingers 9. It is evident, however, that these fingers may be adjusted other than at equal distances from the printing position of the die and that when said fingers are set any number of articles may be printed in the same position. The fingers 9 are movable along the rib 10, formed on the rear face of the bed-plate 2, and are held in their adjusted position by suitable set-screws or equivalent clamps 11.

The die 3 is movable toward and away from the bed-plate 2 and is arranged to alternately contact with the garment or other article to be stamped on said plate and with the inking-pad 4, and in order to effect this alternate inking and printing of the die I preferably mount said die upon a suitable rock-shaft 12, which is provided with a segment of a gear 13, meshing with a fixed rack 14, said rock-shaft being mounted on one end of a rock-arm 15, which is pivoted at its other end to the bracket 7, so that as the arm 15 is rocked upon the pivot 17 the die 3 will be inverted during its movement from the inking-pad toward the bed-plate 2 and will also be returned to its normal position against the inking-pad upon the return movement of the rock-arm 15.

The segmental rack 14 is preferably mounted upon one of a pair of upright spindles 18, being adjustable vertically thereon and held in its adjusted position by a suitable set-screw or equivalent device 19.

The stamping-die 3 is detachably mounted upon a suitable frame 20, which is secured to the rock-shaft 12, said frame being provided with open-ended slots 21 for receiving clamping-screws 22, provided on the stamping-die 3 and depending therefrom. It is thus evident that any form of die having screws 22, adapted to be inserted in the slots 21, may be readily attached to the frame 20 and held in position by the nuts or thumb-screws 22. Although I have described a specific form of support for the stamping-die, it will be apparent that any other equivalent device may be used for permitting different stamping-dies to be placed in position or mounted upon the rock-shaft 12.

The inking-pad 4 may also be of any desired form or construction adapted to ink the stamping-surface of the die 3, and, as seen in the drawings, this pad is adjustably mounted upon a rock-arm 24, which is pivoted at 25

to a bracket or arm 26, said bracket or arm being adjustably mounted upon the upright spindles 18 and held in position by set-screws or equivalent clamping means 27. This rock-arm 24 is provided with a rearward extension 28, connected by a link 29 to the intermediate portion of the rock-arm 15, and it is evident that as the arm 15 is rocked for forcing the die toward the bed-plate 2 the arm 24 is also rocked in a reverse direction for moving the inking-pad away from the bed-plate, or rather away from the die 3, and that said die and inking-pad when returned to their normal positions form suitable stops for limiting their movement toward each other. At the same time the inking-pad serves to ink the printing-surface of the die 3.

The purpose of adjustably mounting the inking-pad upon the arm 24 is, first, that the pad may be readily adjusted to contact with the entire printing-surface of the die 3, and consequently to permit the pad to be moved to different positions relative to the die 3 in order that the wear incidental to the contact of the die with the surface of the pad may be distributed over the entire surface of the pad, thereby prolonging the life of the inking device and insuring a perfect contact and ink-supply to the stamping-surface of the die.

Any desired means may be employed for rocking the arm 15, and I have here shown a foot-lever or treadle 30, pivoted at 31 to the base 5 and connected to the arm 15 by a suitable link or rod 32, so that as the lever 30 is depressed the arms 15 and 24 are rocked in reverse directions, the die being moved toward the bed-plate and the inking-pad being moved away from the die.

In order to return the foot-lever 30 and the movable parts actuated thereby to their normal positions, I preferably connect the treadle 30 to the brackets 7 by a suitable spring 34, which in this instance encircles the rod 32 and is partially supported thereby.

In the operation of my invention when desired to stamp the garment or other article the die having the proper form is secured to the frame 20, the garment or other article is then placed in position upon the bed-plate in the path of the die, and the foot-lever 30 is then depressed against the action of the spring 34, thereby moving the printed surface of the die from the inking-pad, inverting the same in its travel, and forcing the printing-surface into contact with the garment or other article on the table 2. When the pressure upon the lever 30 is released, the spring 34 automatically returns the die and inking-pad to their normal positions.

The operation of my invention will now be readily understood upon reference to the foregoing description and the accompanying drawings, and it will be noted that some change may be made in the detail construction and operation of the parts of my invention without departing from the spirit there-

of. Therefore I do not limit myself to the precise construction and arrangement as is shown and described.

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

10 1. A garment-stamping machine comprising a bed-plate, an invertible die and an ink-pad both movable toward and away from the bed-plate and each forming a stop for the other and means for actuating the die and ink-pad.

15 2. In a garment-stamping machine, the combination with a bed-plate, a die movable toward and away from the bed-plate, inking means movable into contact with the stamping-face of the die and means to simultaneously actuate the die and inking means said die and inking means forming stops for 20 each other.

3. A garment-stamping machine comprising a bed-plate for supporting the articles to be stamped, a die and inking-pad movable

toward and away from each other means for inverting the die as it is moved toward and 25 from the pad, the die being movable into engagement with the article to be stamped and means for simultaneously actuating the die and inking-pad in opposite directions.

4. In a machine for stamping garments, the 30 combination with a bed-plate, a lever having a rock-shaft and a die secured to the rock-shaft said rock-shaft and its die being movable toward and away from the bed-plate, a graduated scale on the bed-plate extending 35 in either direction from the printing position of the die, index-fingers movable along said graduations means for operating the lever, and additional means for rocking the shaft and its die as the lever is rocked. 40

In witness whereof I have hereunto set my hand this 29th day of May, 1901.

HENRY WATKINS.

Witnesses:

J. J. CONLON,

WM. G. DOOLITTLE.