

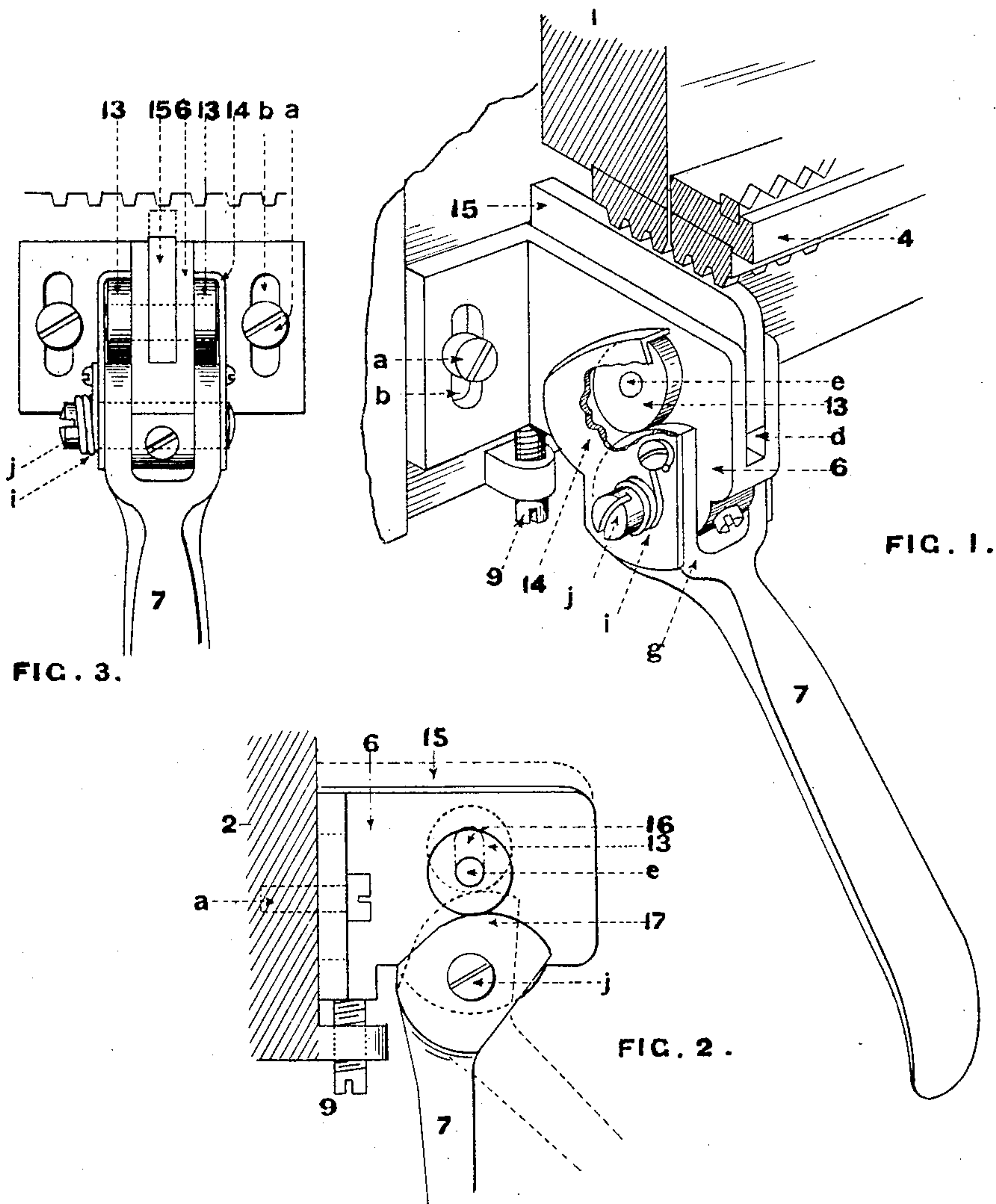
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C. A. HEYER.
REGISTERING DEVICE FOR PRINTING BEAMS.

APPLICATION FILED APR. 18, 1903.

NO MODEL.



WITNESSES.

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UNITED STATES PATENT OFFICE.

CHARLES A. HEYER, OF ST. JOHNSBURY, VERMONT, ASSIGNOR TO E. & T. FAIRBANKS & COMPANY, OF ST. JOHNSBURY, VERMONT, A CORPORATION OF VERMONT.

REGISTERING DEVICE FOR PRINTING-BEAMS.

SPECIFICATION forming part of Letters Patent No. 751,286, dated February 2, 1904.

Application filed April 18, 1903. Serial No. 153,242. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. HEYER, a citizen of the United States, residing at St. Johnsbury, in the county of Caledonia, State of Vermont, have invented certain new and useful Improvements in Registering Devices for Printing-Beams, of which the following is a description, reference being had to the accompanying drawings and to the letters and figures of reference marked thereon.

The present invention relates to an improvement in weighing-scales of the type known as "printing" or "registering" beams, as illustrated, for example, in the patent granted to Henry Fairbanks January 18, 1898, No. 597,640.

In a patent granted to F. W. Taylor March 20, 1901, No. 669,813, is illustrated a novel device for use in connection with a scale of the type above mentioned for pressing the ticket against the type-numerals on the beam and poise-slide to make the proper record of weight on said ticket, the object of the construction illustrated in the said Taylor patent being to give a rolling pressure as the pressing device passes from its normal position into engagement with the ticket to cause the impression to be taken.

The present invention may be said to be an improvement upon or development of the device for accomplishing the same purpose shown in the said Taylor patent; and it consists, broadly, in means for imparting to the ticket a direct vertical pressure to force it against the type; but this pressure is given by an antifriction or rolling connection between the operating-lever and the ticket-holder, thus obtaining the advantage of a direct uniform vertical pressure upon all parts of the ticket at once, while at the same time reducing friction to a minimum.

The invention further consists in the matters hereinafter described, and referred to in the appended claims, including details of construction and adjustment, all of which will be hereinafter pointed out.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective front view, partly in section, of a portion of a printing or registering beam embodying the invention. Fig. 2 is a cross-section of the poise, the beam and poise-slide being, however, removed, the parts for making the impression being shown partly in full lines and partly in dotted lines. Fig. 3 is a front view of the block which supports the impression apparatus.

In the drawings, 1 represents the scale-beam, 2 the rear portion of the main poise, and 4 the auxiliary poise or poise-slide, these parts being of a construction similar to that shown in the patent of Taylor above referred to, and it is not deemed necessary to illustrate other parts, such as the front plate, the pointer, &c.

Secured to the main poise is a block or holder 6, this holder being adjustably attached to the back of the poise by two screws *a a* passing through slots *b b* in the base of the holder and into the body of the poise, nicety of vertical adjustment to and from the face of the type being secured by the adjusting-screw 9. The block 6 has a vertical slot or recess *d*, in which fits and moves freely the straight bar 15, which I call the "pressure-bar." This pressure-bar, which forces the ticket up against the face of the type, is raised vertically by means of the lever 7, having cam-shaped upper ends, which cams operate upon rolls 13 on the ends of the pin *e*. This pin is secured or passes through the pressure-bar 15, but is free to move vertically in slots 16 in the sides of the block or holder 6. As the cam acts directly on the pin *e* and this pin is near the center of pressure-bar, it is evident that the pressure-bar is free to rock and adjust itself to any unevenness of the type, and by the introduction of the rolls 13 between the cams and the pressure-bar a rolling contact is secured which reduces the friction to a minimum. The lever 7 is journaled on the pin *j* and is held in normal position by the coil-spring *z*. The rolls 13 are retained in posi-

tion on the pin *e* by caps 14, formed of thin sheet metal, the upper edge being bent over forming lips which hold the rolls in contact with the faces of the cams.

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

1. In a printing or registering beam for weighing-scales, means for causing the impres-
10 sion of the type-numerals to be printed on the ticket, comprising a suitable holder, a pressure-bar having a vertically-sliding pivot connection with the holder, a cam-lever for rais-
15 ing said pressure-bar vertically and intermediate antifriction devices interposed between the cam-lever and the pressure-bar, carried by said pressure-bar; substantially as described.

2. In a printing or registering beam for weighing-scales, means for causing the impres-
20 sion of the type-numerals to be printed on the ticket, comprising a suitable holder, a pressure-bar having a vertically-sliding pivot connection with the holder, antifriction-rollers carried by said pivot and a cam-lever in opera-
25 tive engagement with the antifriction-rollers; substantially as described.

3. In a device of the character described, a

pivoted vertically-movable pressure-bar, anti-
friction-rollers carried thereby, cam-lever for
engaging said antifriction-rollers to move the 30
pressure-bar vertically and devices carried by
the cam-lever and engaging the rollers for
holding them in engagement with the operat-
ing means; substantially as described.

4. In a device of the character described, a 35
suitable holder having vertical slots therein, a
pressure-bar having a shaft or pin guided in
said slots, antifriction-rollers on said shaft or
pin, a lever having cams engaging said roll-
ers; substantially as described. 40

5. In a device of the character described, a
suitable holder provided with vertical slots
therein, a pressure-bar having a shaft or pin
engaging said slots, antifriction-rollers on
said pin, a lever having cams engaging said 45
rollers and caps secured to the lever and en-
gaging the antifriction-rollers; substantially
as described.

In testimony whereof I affix my signature in
presence of two witnesses.

CHARLES A. HEYER.

Witnesses:

PERLEY F. HAZEN,
F. C. BECK.