

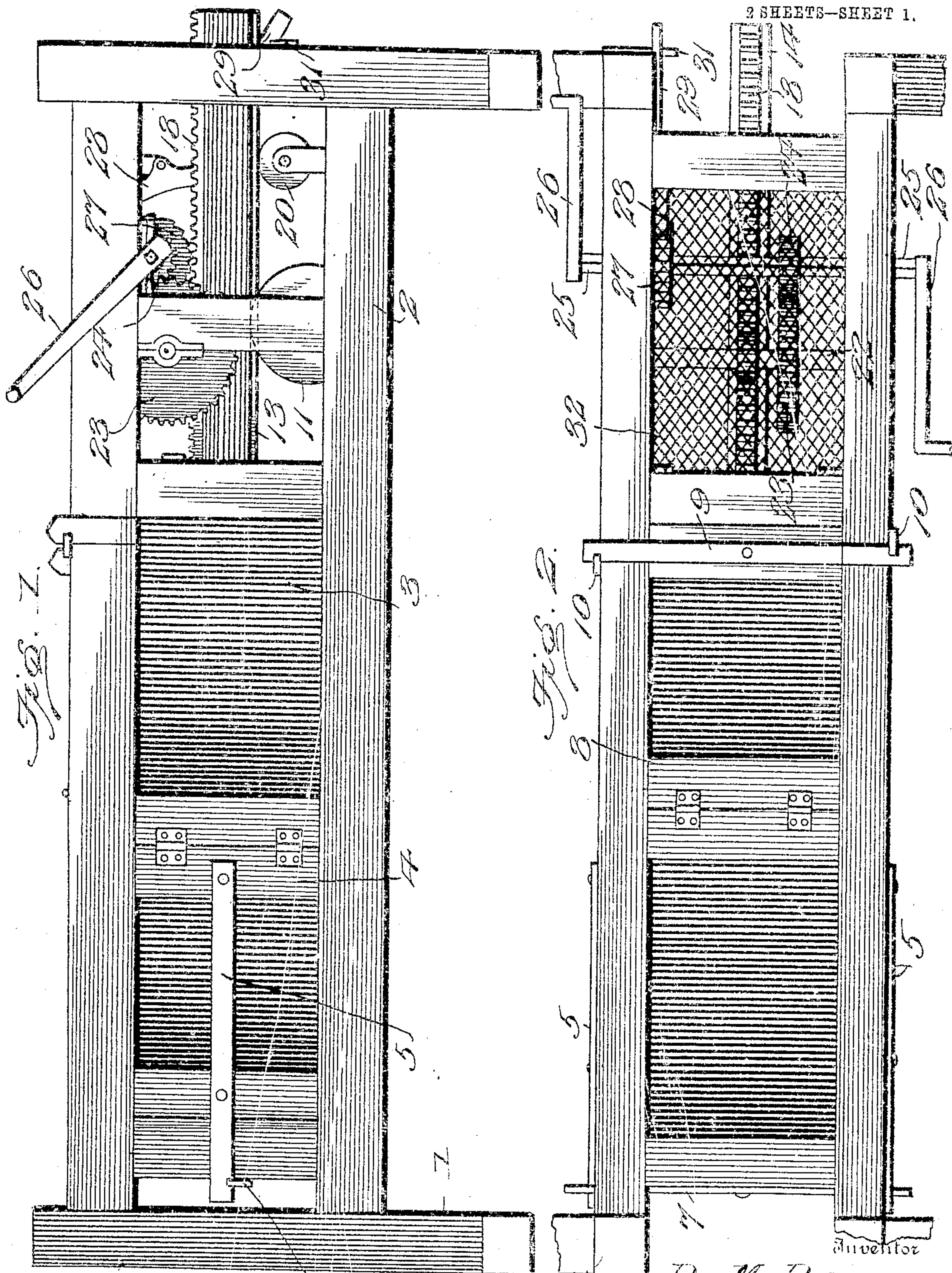
No. 786,714.

PATENTED APR. 4, 1905.

D. M. BASS.
BALING PRESS.

APPLICATION FILED OCT. 2, 1903.

2 SHEETS—SHEET 1.



Witnesses

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By

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Inventor

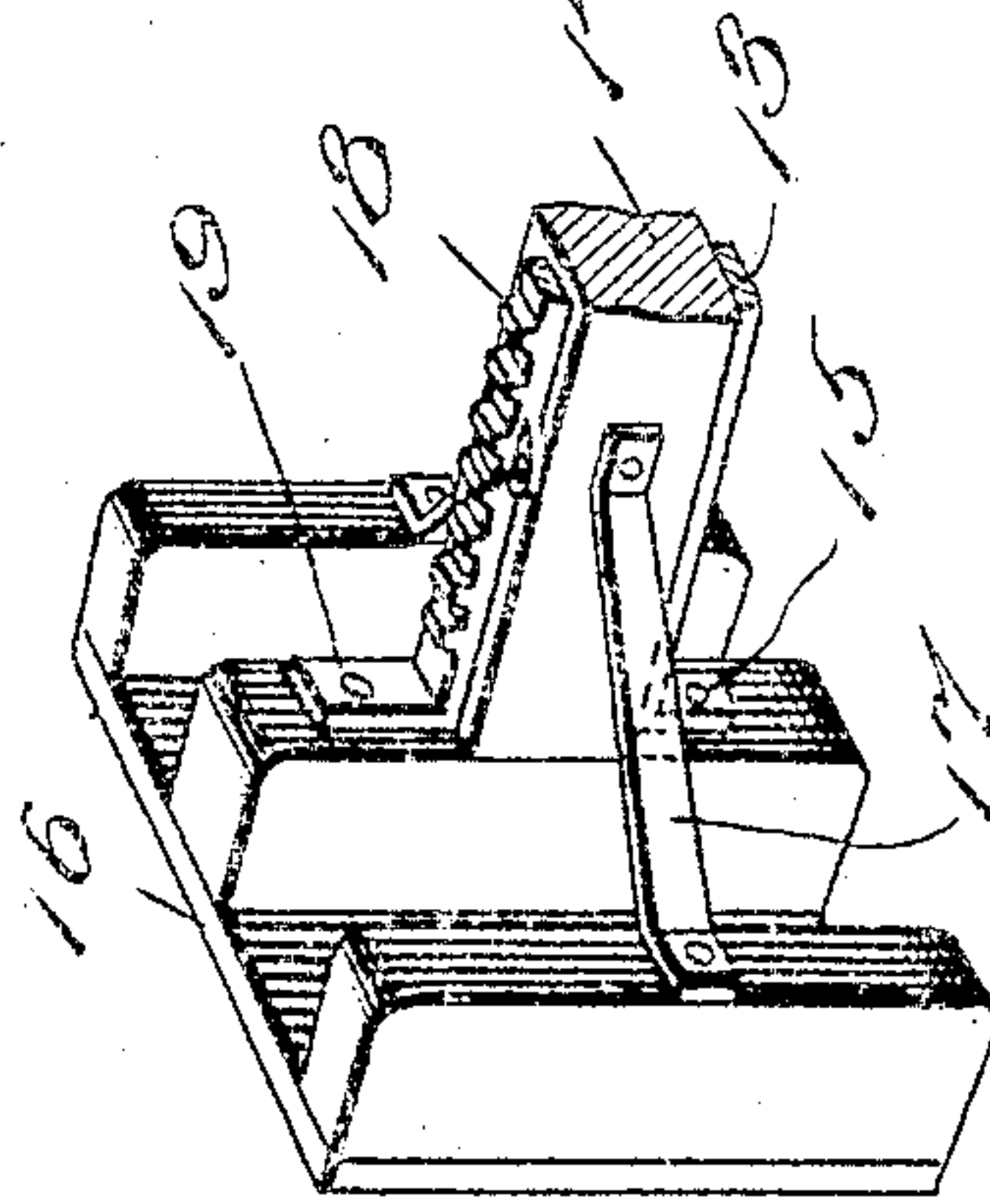
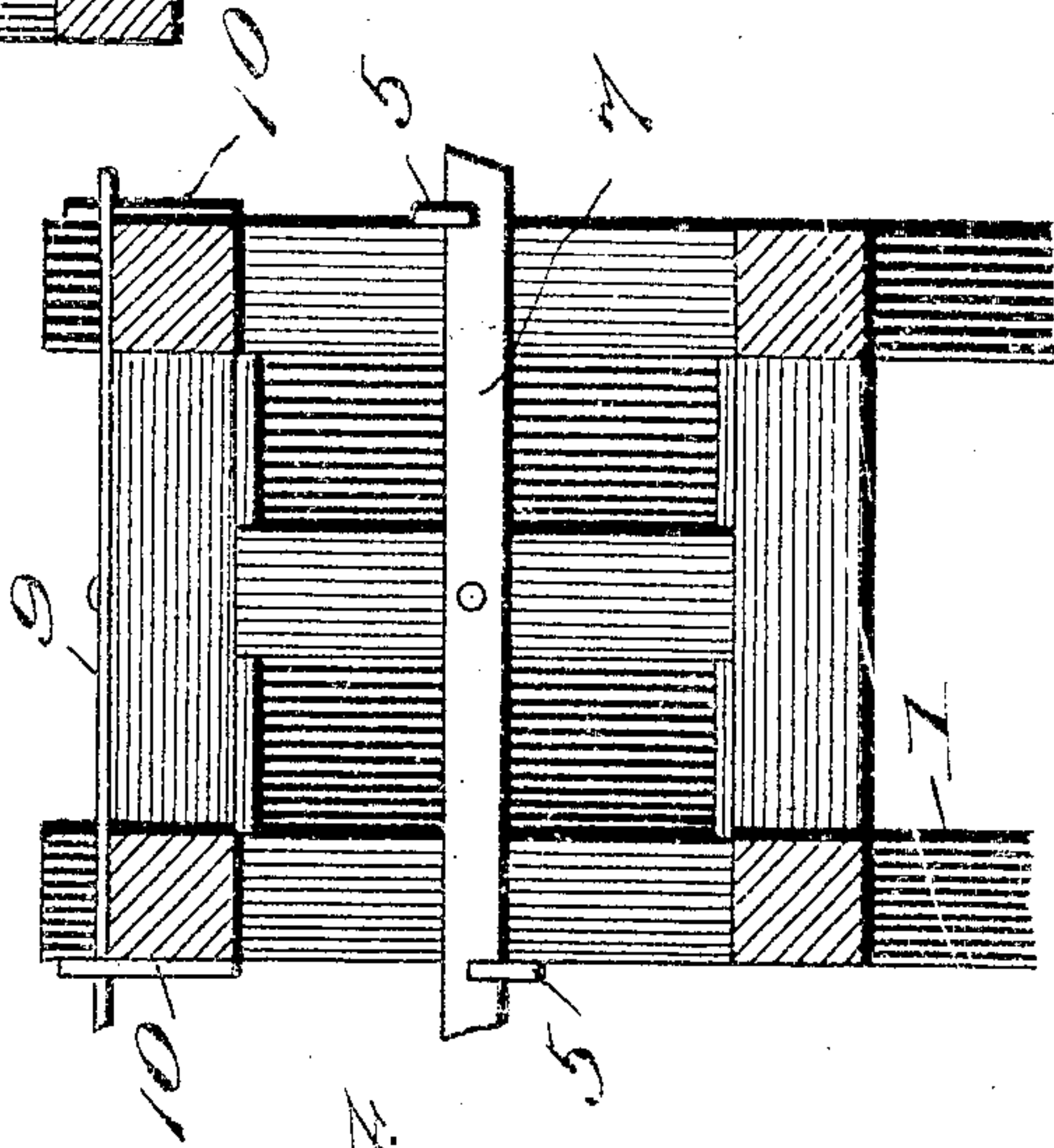
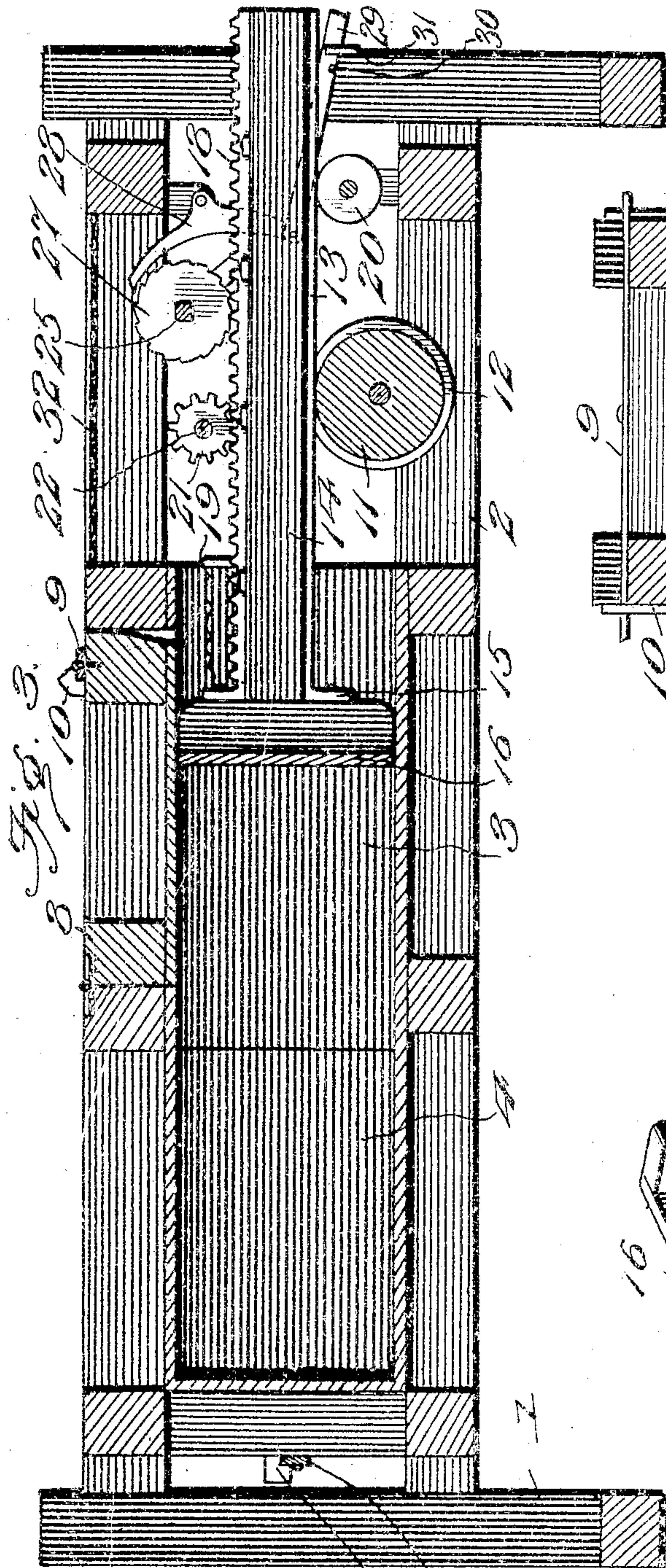
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Witnesses
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UNITED STATES PATENT OFFICE.

DUNCAN M. BASS, OF GLENZODIA, ALABAMA.

BALING-PRESS.

SPECIFICATION forming part of Letters Patent No. 786,714, dated April 4, 1905.

Application filed October 2, 1903. Serial No. 175,506.

To all whom it may concern:

Be it known that I, DUNCAN M. BASS, a citizen of the United States, residing at Glenzodia, in the county of Jackson and State of Alabama, have invented new and useful Improvements in Baling-Presses, of which the following is a specification.

My invention relates to new and useful improvements in baling-presses; and its object is to provide a durable, compact, and inexpensive device of this character having mechanism of novel construction whereby the material within the press can be readily compressed.

With the above and other objects in view the invention consists in the construction and arrangement of the several parts, which will be more fully hereinafter described and claimed.

In the drawings, Figure 1 is a side elevation of the press. Fig. 2 is a plan view thereof. Fig. 3 is a vertical longitudinal section therethrough. Fig. 4 is a rear elevation. Fig. 5 is a detail view of the plunger and a portion of the bar connected thereto.

Referring to the figures by numerals of reference, 1 1 are standards which are connected by longitudinally-extending beams 2, and supported by these beams is a casing 3, which forms a compressing-chamber. Doors 4 are hinged to the sides of this compressing-chamber, and each door has a bar 5 rigidly secured thereto and extending beyond the rear end of the casing. This projecting portion of each bar is adapted to be simultaneously engaged by the notched ends of a centrally-pivoted lever 7, mounted upon the end of the casing. A door 8 is also hinged to the top of the casing and is adapted to close the inlet thereto, and this door has a pivoted bar 9 thereon, which is adapted to engage notched plates 10, arranged upon the sides of and extending upwardly from the casing. A pulley 11 is journaled between the bars 2 at a point in front of casing 3, and the periphery of this pulley is grooved, as shown at 12, and is adapted to receive a guide-plate 13, secured to and extending longitudinally along the lower face of a bar 14. A downwardly-extending ear 15 is formed at the inner end of the guide-plate 13 and is fastened in any suit-

able manner to the plunger 16, which is slidably mounted within the casing. Braces 17 are connected at opposite ends to the bar 14 and the sides of the plunger, and a rack 18 is secured upon and extends longitudinally of the bar 14 and has an ear 19 at its inner end, which is also fastened to the plunger 16. These ears serve to securely connect the bar 14 to the plunger, and the braces 17 prevent the swinging of the plunger in relation to the bar. A second roller 20 is journaled within the frame at a point below the bar 14 and assists the pulley 11 in supporting said bar. A gear 21 engages the rack 18 and is mounted on a shaft 22, to which is also secured a large gear 23. This large gear meshes with a small gear 24, secured to a shaft 25, journaled in the frame of the machine. Cranks 26 are fastened to the ends of the shaft 25, and this shaft is also provided with a ratchet-wheel 27. A pawl 28 is hung within the frame of the machine and is adapted to normally engage the ratchet-wheel by gravity, and pivotally connected to this pawl is a bar 29, having notches 30 therein, either of which is adapted to engage a spring-plate 31, extending inwardly from one of the standards of the machine.

In operating the press the cranks 26 are turned so as to rotate the gears and retract the plunger from the casing 3. The top door 8 is then opened and the hay or other material to be pressed is placed within the compartment in the casing. Said door is then closed and the bar 29 is drawn outwardly, so as to swing the pawl 28 into engagement with the ratchet-wheel 27, and said bar is then placed in engagement with the spring-plate 31. The gears are then rotated by means of the cranks 26 and the rack 18 will be moved forward, carrying therewith the bar 14 and the plunger 16. The pulley 11 serves to guide the bar straight forward and prevents any tendency of the same to swing laterally during such movement. After the material has been pressed within the casing the side doors 4 are opened by swinging the end lever 7 upon its fulcrum, so as to simultaneously release the bars 5. The two side doors can then be opened and the material removed.

Wire-netting 32 is preferably placed upon

the machine above the gears so as to prevent them from becoming clogged by material fed to the machine, and, if desired, this netting may be also placed at the sides of the mechanism.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing any of the advantages thereof, and I therefore reserve the right to make such changes as fairly fall within the scope of my invention.

Having thus fully described the invention, what is claimed as new is—

In a baling-press, the combination with a casing forming a compressing-chamber; of a plunger slidably mounted in said chamber, a bar extending therefrom, laterally-extending

bracing devices connecting the bar and plunger, a guide-strip secured longitudinally upon the bar and to the plunger, supporting-rollers for the bar, one of said rollers being grooved to receive and guide the strip, a rack secured upon the bar and plunger, a gear engaging the rack, a shaft, means for transmitting motion therefrom to the gear, a ratchet, a ratchet-engaging device, a spring-strip secured to the frame, and a notched bar connected to the engaging device and adapted to be adjustably secured to the spring-strip.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DUNCAN M. BASS.

Witnesses:

K. L. ATTEBERY,
D. S. SHIPP.