

No. 880.877.

PATENTED MAR. 3, 1908.

J. GOODFELLOW.
PRESS.

APPLICATION FILED MAY 27, 1907.

2 SHEETS—SHEET 1.

Fig. 1.

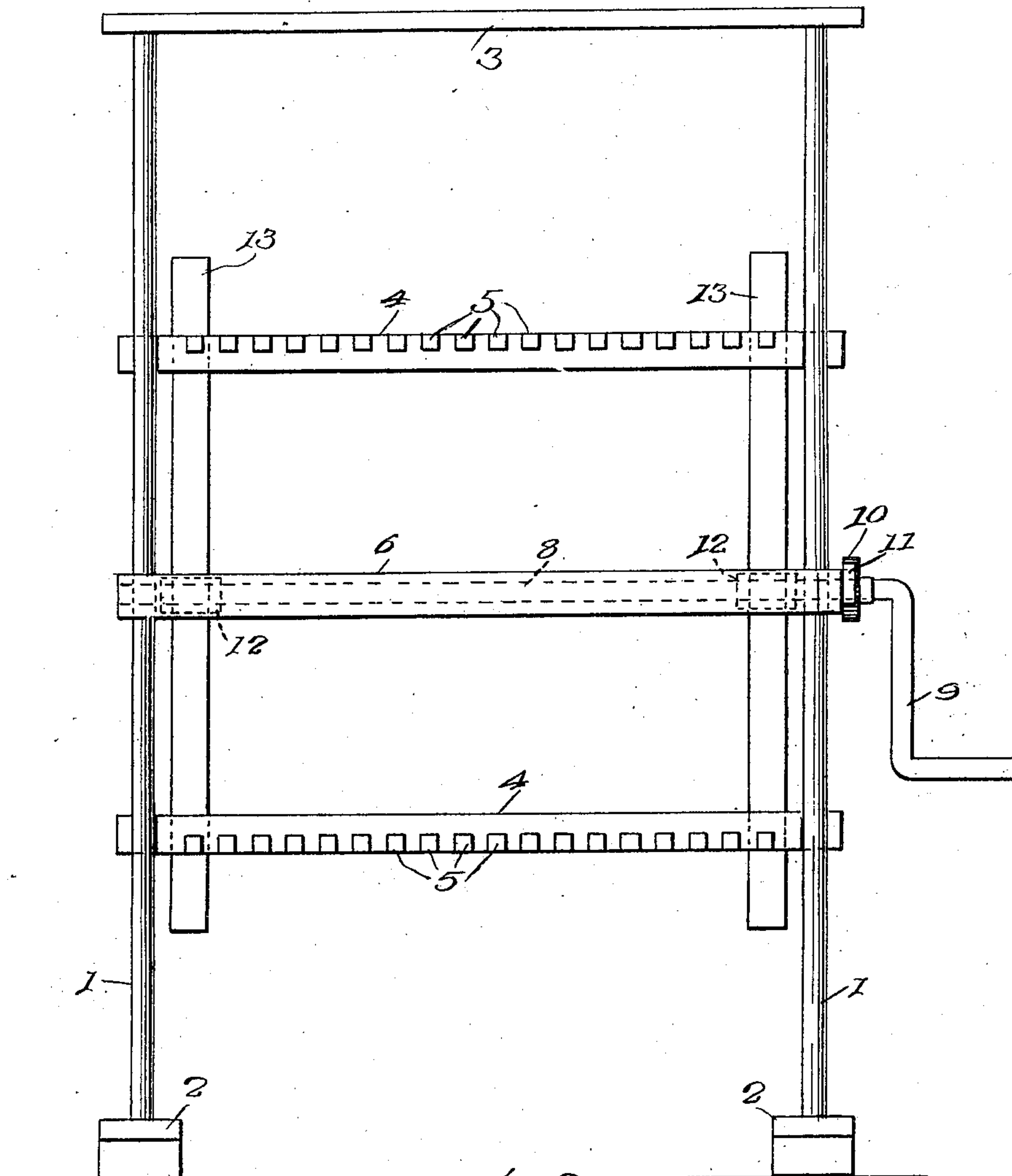
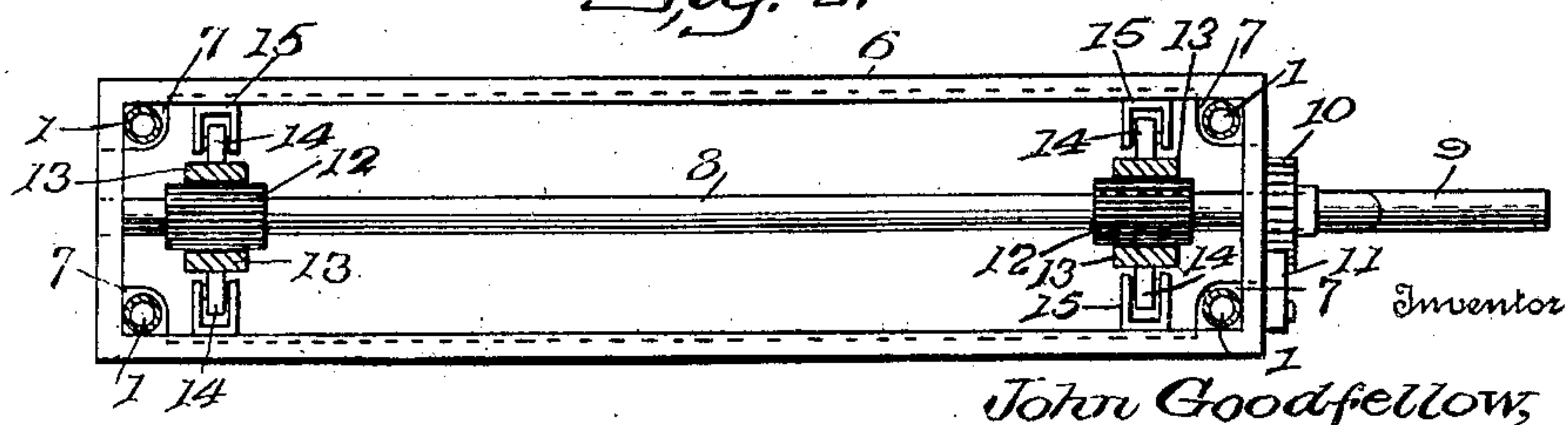


Fig. 2.



Witnesses

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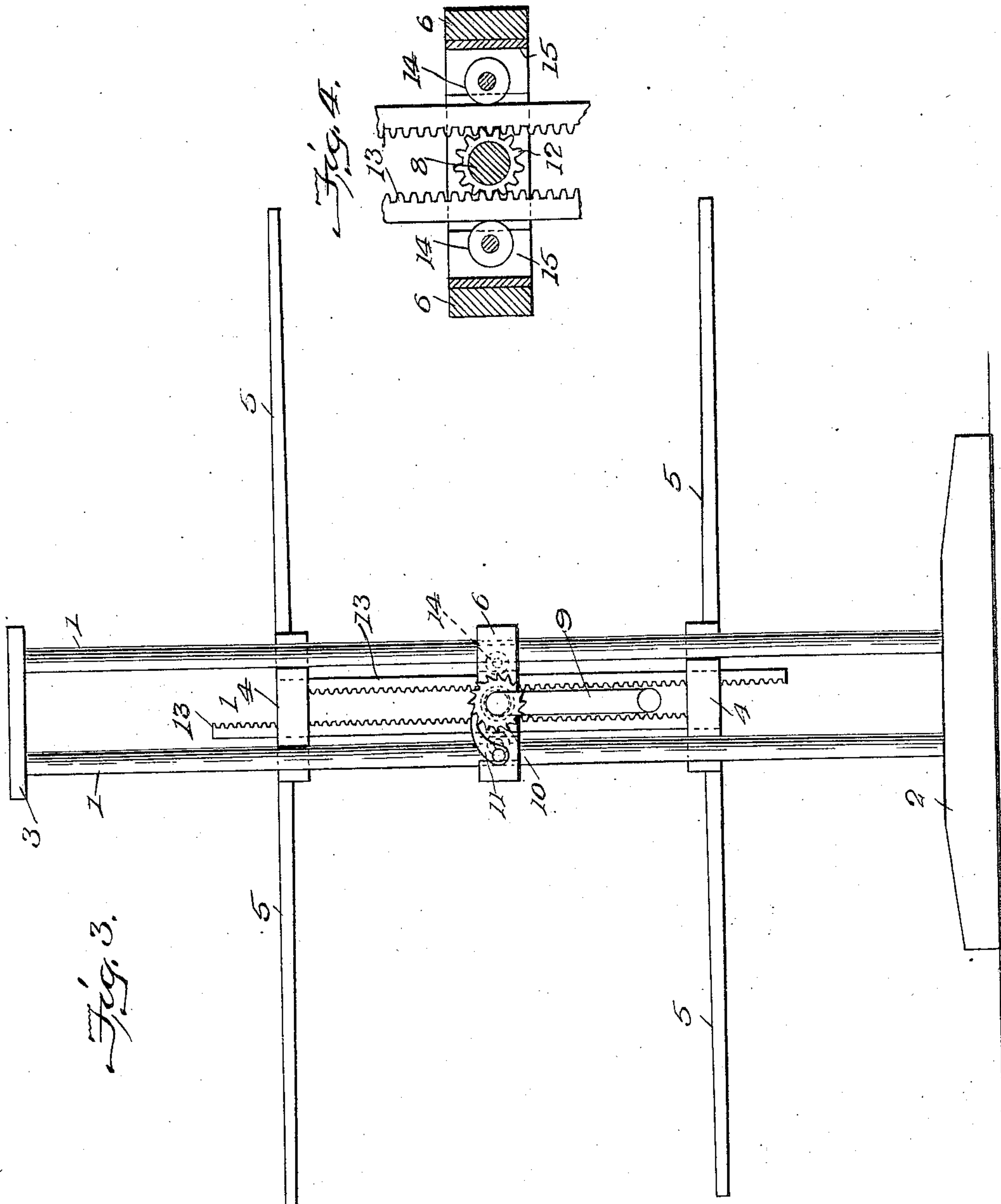
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UNITED STATES PATENT OFFICE.

JOHN GOODFELLOW, OF VIENNA CROSS ROADS, OHIO.

PRESS.

No. 880,877.

Specification of Letters Patent.

Patented March 3, 1908.

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To all whom it may concern:

Be it known that I, JOHN GOODFELLOW, a citizen of the United States, residing at Vienna Cross Roads, in the county of Clark and State of Ohio, have invented certain new and useful Improvements in Presses, of which the following is a specification, reference being had therein to the accompanying drawings.

10 The present invention relates to presses, and is designed more particularly for packing or baling quilts and articles of similar character.

15 The object of the invention is to provide a press of this character which will support the quilts or articles to be baled in a convenient position where they will be readily accessible and in which they can be readily bound or inclosed in a suitable packing case; and further, to provide a press of this character which will be simple, and, consequently, inexpensive both in construction and in operation.

25 With these objects in view my invention consists in certain novel features of construction and in certain parts and combinations hereinafter to be described, and then more fully pointed out in the claims.

30 In the accompanying drawings, Figure 1 is a front elevation of a press embodying my invention; Fig. 2 is a detail view of the shaft-supporting frame; Fig. 3 is a side elevation of such a press; and Fig. 4 is a detail view of a portion of the operating mechanism, showing the shaft and its supporting frame in section.

35 In these drawings, I have illustrated the preferred form of my invention and have shown the same as comprising a main frame, which is composed of upright standards 1 arranged in pairs, each pair forming one end of the frame and being provided at the bottom thereof with a base 2. The upper ends of the standards of each pair are connected to each other and each pair of standards is connected to the other pair in any suitable manner, but I prefer to connect the upper ends of the standards in the manner shown in the drawings, in which the connecting member consists of a plate or strip 3, of any suitable material, which is of greater area than the cross sectional area of the main frame and is secured near each corner to the upper end of one of the standards and forms the top of the main frame. Mounted within the main frame and adapted to reciprocate

vertically thereof are a plurality of guide plates 4, preferably two in number. These plates may be of any suitable material and may be mounted within the frame in any suitable manner, but, as here shown, they consist of plates or blocks of slightly greater area than the cross sectional area of the main frame and recessed at each corner to form a guideway to receive one of the standards 1, thus securing the guide plate against any movement, save a vertical movement, but allowing the same to slide freely in a vertical direction on the standards 1. Each of the guide plates 4 is provided on one or both sides thereof with a plurality of outwardly projecting members or fingers 5, which are rigidly secured thereto and are of sufficient rigidity to support the quilts or other articles to be baled under sufficient pressure to compress them to the desired extent.

40 Rigidly mounted on the standards 1 of the main frame in any suitable position relatively to the guide plates 4 is an auxiliary or shaft-supporting frame 6, which preferably consists of a rectangular frame extending about the outer side of the main frame and provided with inwardly extending apertured lugs or lips 7, through which the standards 1 extend. Extending longitudinally of the frame 6 and journaled in the opposite ends thereof is a shaft 8, which extends beyond the frame at one end thereof and is provided with a suitable handle 9 for rotating the same and with suitable means, such as a ratchet 10 and pawl 11, for locking the same against movement. Rigidly mounted upon the shaft 8 within the frame 6 and preferably near the opposite ends thereof are suitable pinions 12. Each of the guide plates 4 is provided with one or more rack bars 13, adapted to engage with the pinions 12 on the shaft 8. In the construction here shown, the guide plates are arranged on the opposite sides of the shaft-supporting frame 6, and each guide plate is provided with two rack bars 13, the rack bars of the upper guide plate extending downwardly on one side of the pinions 12, and the rack bars of the lower guide plate extending upwardly on the opposite side of the pinion. Thus, it will be apparent that, when the shaft 8 and pinions 12 are rotated, the guide plates 4 and the arms 5 carried thereby will be moved in opposite directions. Suitable means are also provided for holding the rack bars 13 constantly

in engagement with the pinions 12. This means preferably consists of the rollers 14 mounted in suitable brackets 15 secured to the frame 6 and adapted to engage the backs 5 of the rack bars.

In the operation of the press, the quilts or other articles are piled upon the supporting arms 5 of the lower guide plate 4 on either one or both sides thereof and the handle 9 operated to rotate the shaft 8 and the pinions 12, and thus, through the medium of the rack bars 13, move the guide plates 4 and the fingers 5 toward one another, thus compressing between the fingers 5 the pile of quilts which rests upon the lower supports. When the pile of quilts has been compressed to the desired extent, they may be bound by means of cords, which are readily passed about the same through the spaces between the fingers 5, or, if desired, a suitable covering or sack may be slipped over the ends of the fingers 5, inclosing the fabrics or pile of quilts thereon. The pressure is then reduced slightly which permits the pile of quilts to be slipped out from between the arms 5, the quilts remaining within the sack or covering, and, when free of the arms 5, expanding to a sufficient extent to hold the covering or sack securely on the same, the covering or sack in turn serving to prevent the expanding of the pile of quilts beyond a certain point.

I wish it to be understood that I do not desire to be limited to the exact details of construction shown and described, for obvious modifications will occur to a person skilled in the art.

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

1. A press of the character described comprising a main frame, a pair of guide plates mounted within said main frame, means for moving said guide plates in opposite directions, and members carried by each of said guide plates extending outwardly from said main frame and adapted to receive the material to be compressed between them.

2. A press of the character described, comprising a main frame, a pair of guide plates mounted within said main frame, means for moving said guide plates in opposite directions, and a plurality of fingers carried by each of said guide plates extending outwardly beyond said main frame and adapted to receive the material between the fingers of the respective plates.

3. A press of the character described comprising a main frame, bearings supported on said main frame, a shaft journaled in said bearings, means for rotating said shaft, a pinion secured to said shaft, guide plates mounted in said main frame, members carried by said guide plates and extending outwardly beyond said main frame, and rack bars connected to said guide plates and meshing with said pinion.

4. A press of the character described comprising a main frame, an auxiliary frame, a shaft journaled in said auxiliary frame, means for rotating said shaft, a pinion secured to said shaft, guide plates mounted in said main frame, members carried by said guide plates and extending beyond said main frame, and rack bars connected to said guide plates and meshing with said pinion.

5. A press of the character described comprising a main frame, an auxiliary frame supported on said main frame, a shaft journaled in said auxiliary frame, means for rotating said shaft, pinions secured on said shaft near the opposite ends thereof, guide plates mounted in said main frame on opposite sides of said auxiliary frame, a plurality of rack bars secured to each of said guide plates and extending through said auxiliary frame and meshing with said pinions, and outwardly extending members carried by said guide plates.

6. A press of the character described comprising a main frame, an auxiliary frame, a shaft journaled in said auxiliary frame, means for rotating said shaft, a pinion secured to said shaft, guide plates mounted in said main frame, rack bars carried by said guide plates and meshing with said pinions, and rollers supported from said auxiliary frame and engaging the backs of said rack bars and members carried by said guide plates and extending outwardly therefrom.

7. A press of the character described comprising a main frame, an auxiliary frame, guide plates mounted above and below said auxiliary frame, means carried by said auxiliary frame for moving said guide plates toward and away from the same, and fingers extending outwardly from said guide plates on the opposite side of said main frame.

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

JOHN GOODFELLOW.

Witnesses:

A. C. LINK,
EDWARD L. REED.