

(No Model.)

J. WHITELEY.  
LIFTING JACK.

No. 584,802.

Patented June 22, 1897.

FIG. 2

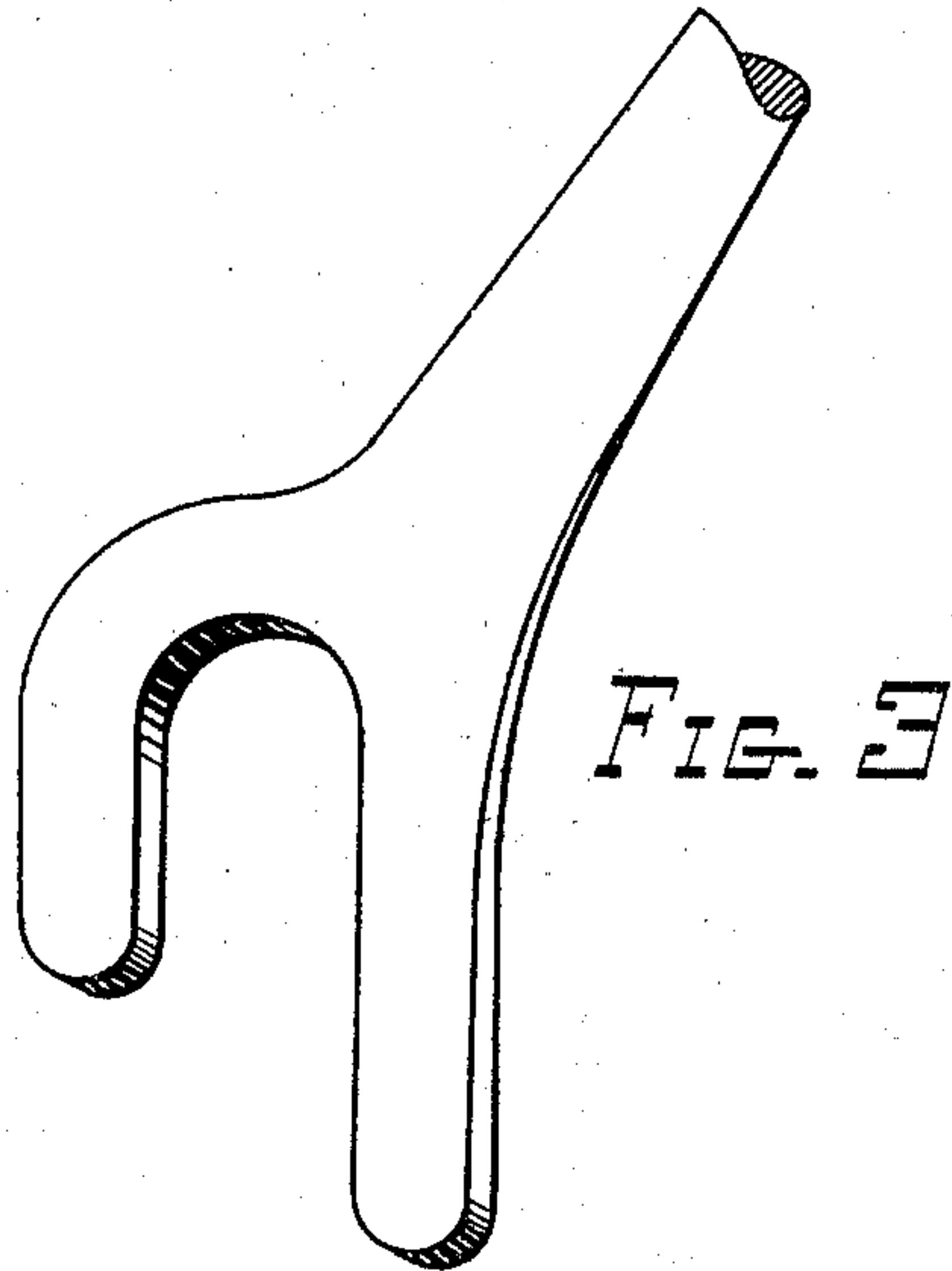
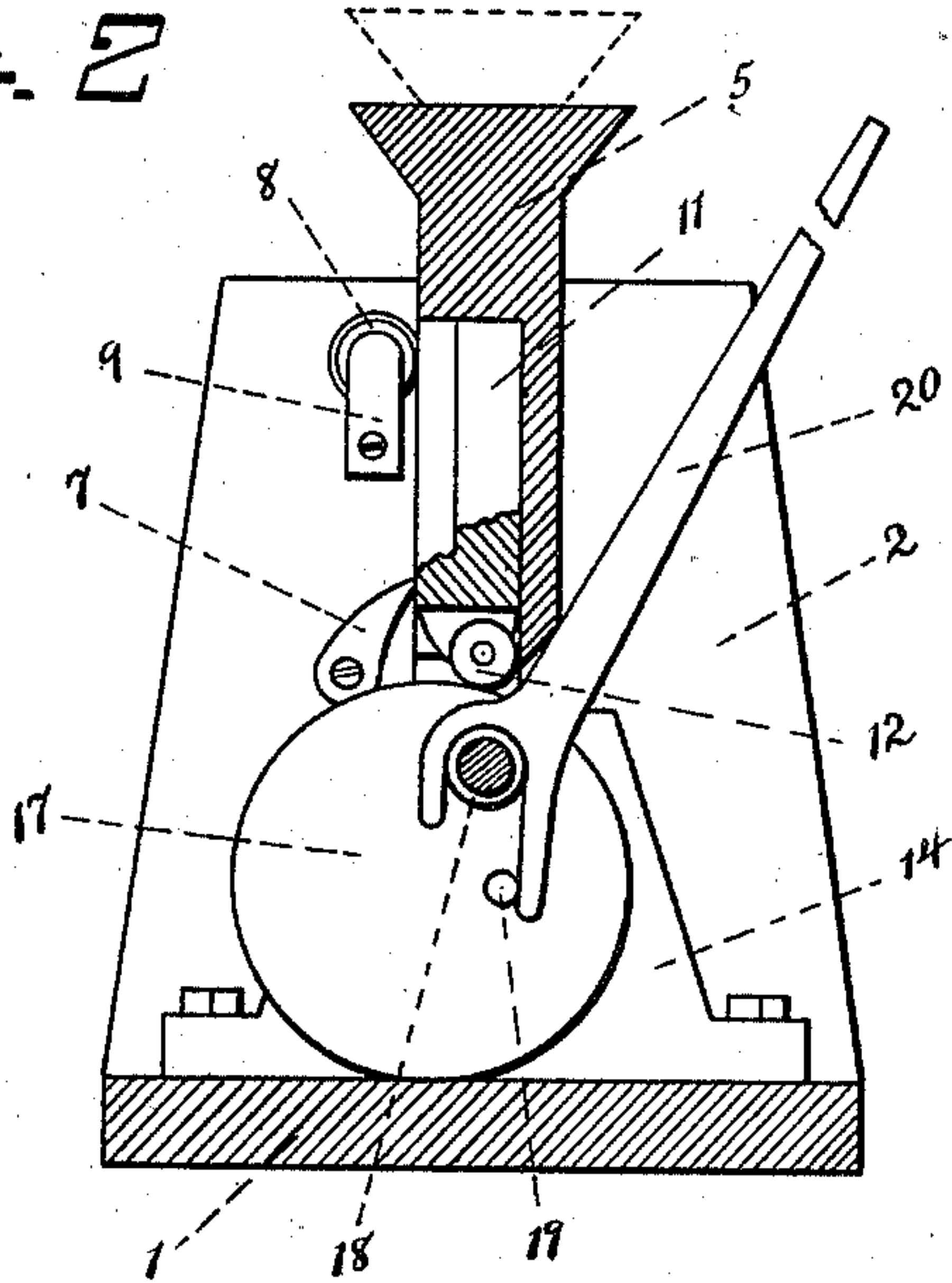
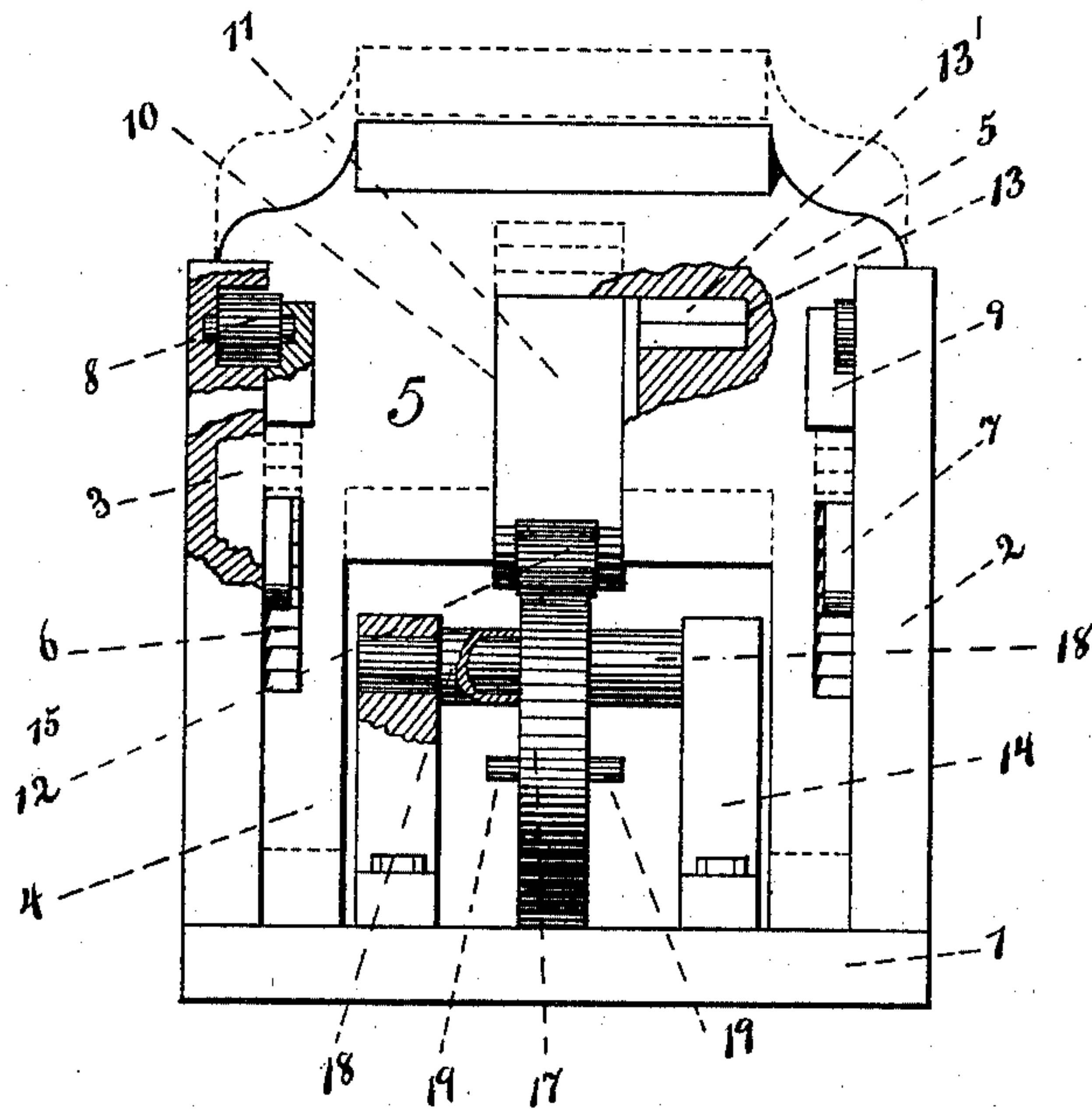


FIG. 1



Witnesses  
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# UNITED STATES PATENT OFFICE.

JOSEPH WHITELEY, OF DELPHOS, IOWA.

## LIFTING-JACK.

SPECIFICATION forming part of Letters Patent No. 584,802, dated June 22, 1897.

Application filed February 27, 1897. Serial No. 625,364. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH WHITELEY, a citizen of the United States, residing at Delphos, in the county of Ringgold and State of Iowa, have invented certain new and useful Improvements in Lifting-Jacks; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to a lifting-jack; and it has for its object to provide a simple, strong, and inexpensive jack which will be powerful in its lifting capacity.

With this object in view the invention consists of certain features of construction and combination of parts, which will be hereinafter more fully described and claimed.

In the accompanying drawings, Figure 1 is a front view of my improved jack, showing in full lines the positions the parts assume when the jack is in the act of making its first or initial lift and showing in dotted lines the positions the parts assume when the jack is about to make its second lift. Fig. 2 is a longitudinal sectional view, and Fig. 3 is a detail perspective view, of the lifting-lever.

In the drawings, 1 denotes the base of the jack, provided with side pieces or standards 2, having vertical ways 3, in which slide the arms 4 of the cross-head 5. These arms are provided with a series of rack-teeth 6, which are engaged by pawls 7, pivoted to the side of the standards, and by means of which the cross-head is supported in its adjusted position.

Rollers 8 are journaled in brackets 9, secured to the standards, and against which the sides of the arms 4 bear in their sliding movement. The cross-head is provided with a central vertical way 10, in which slides a head 11, having journaled in its lower bifurcated end a frictional roller 12.

13 denotes a transverse way or recess in which slides one or more blocks 13', which are adapted to be moved across the way 10, above the sliding head, for a purpose presently to appear.

14 denotes two bearing-blocks, in which is journaled a shaft 15, having loosely mounted

thereon an eccentric 17, which is always in engagement with the roller of the sliding head. This shaft has two sleeves 18 fixed thereon, preferably by brazing, and these sleeves serve to prevent sidewise movement of the eccentric on said shaft. Projecting laterally from said shaft are two fixed studs 19, which are each adapted to receive the forked end of an operative lever 20, by means of which the eccentric is turned on said shaft.

In operation the jack is placed beneath the load to be lifted, with the cross-head supporting the same. By pressing down on the lever the eccentric is turned about the shaft and, engaging the roller in the lower end of the sliding head, the cross-head, with its load, will be elevated and held in this position by the jaws. The lever is now withdrawn, allowing the eccentric to turn and the sliding head to descend or lower. One of the blocks 13' is now pushed across the vertical central way, and by again operating the eccentric the cross-head will be further elevated a distance equal to the thickness of the block. This operation may be repeated as many times as there are blocks.

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

In a lifting-jack, the combination with the standards provided with grooved ways, anti-friction-rollers supported adjacent to said ways, and pawls pivoted to said standards, of a cross-head the arms of which move in said ways and are provided with rack-teeth engaged by said pawls, a slidable head mounted to slide in a way formed in the cross-head and provided with a roller, a block adapted to move across said way within the path of the slidable head, a shaft supported below the slidable head, and provided with an eccentric to engage the roller journaled therein, substantially as shown and described.

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

JOSEPH WHITELEY.

Witnesses:

WM. POOL,  
O. C. HOOVER.