

(No Model.)

R. D. THACKSTON.
SAFETY LOCK FOR ELEVATORS.

No. 386,367.

Patented July 17, 1888.

Fig. I.

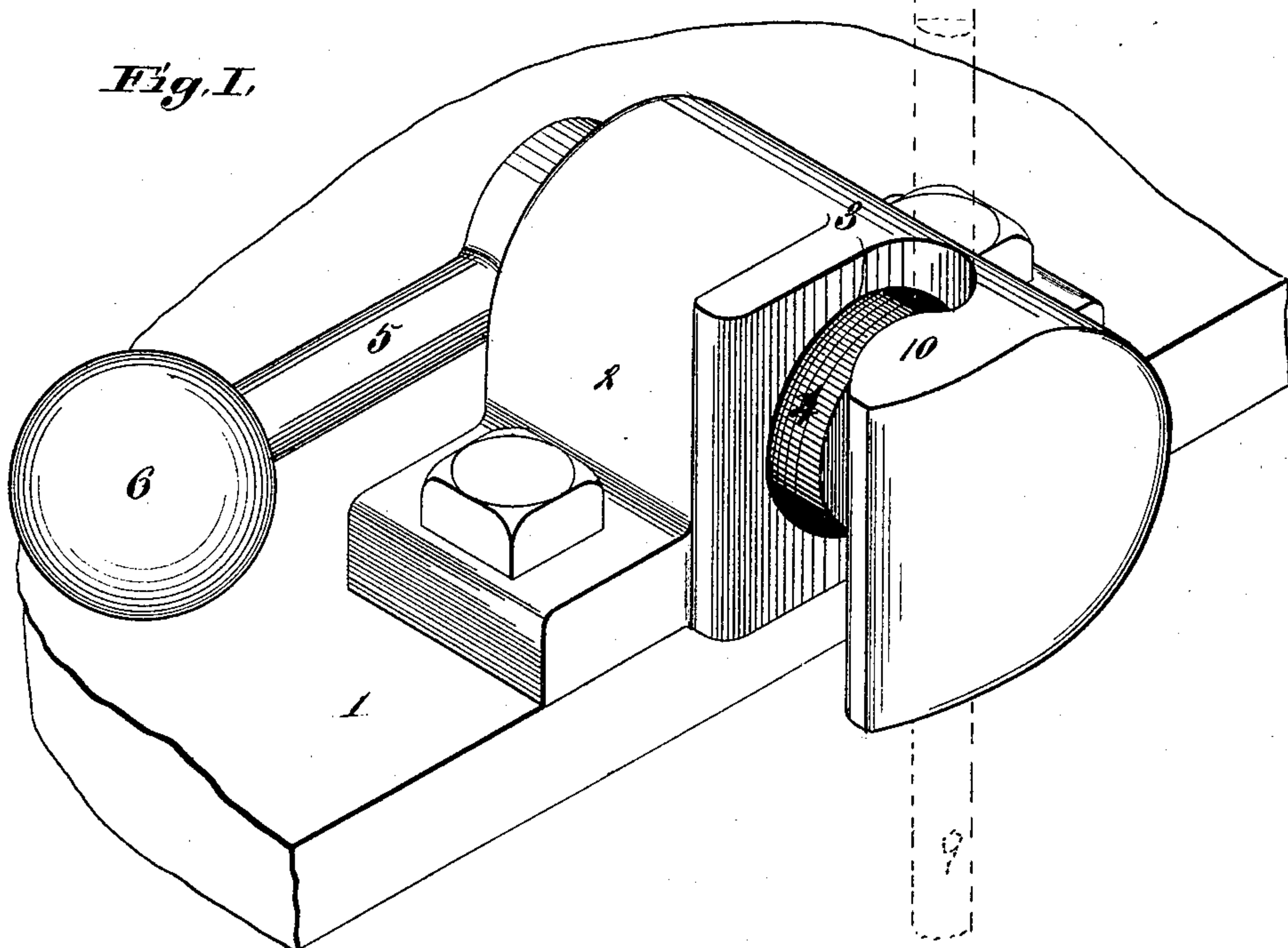


Fig. II.

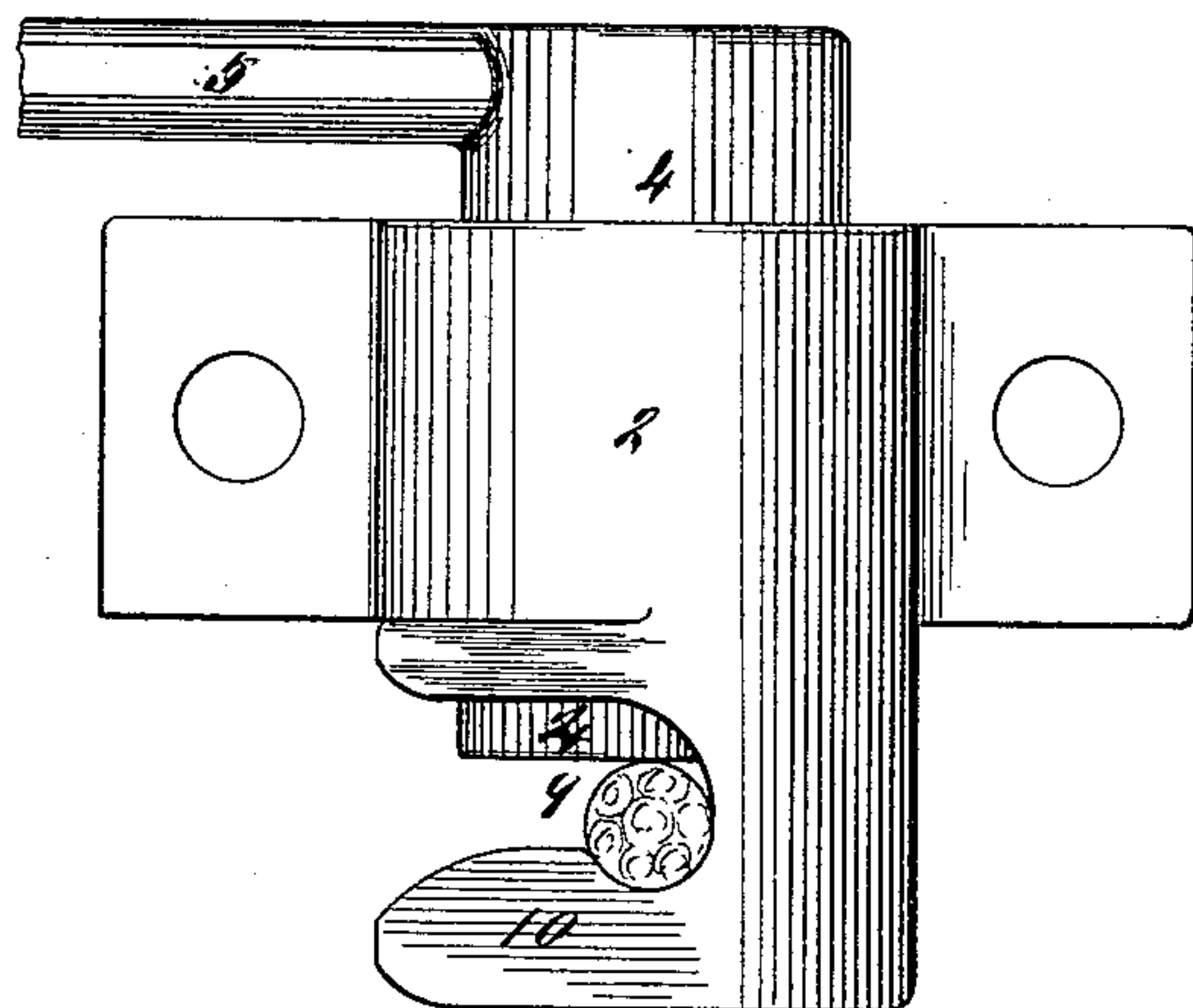


Fig. III.

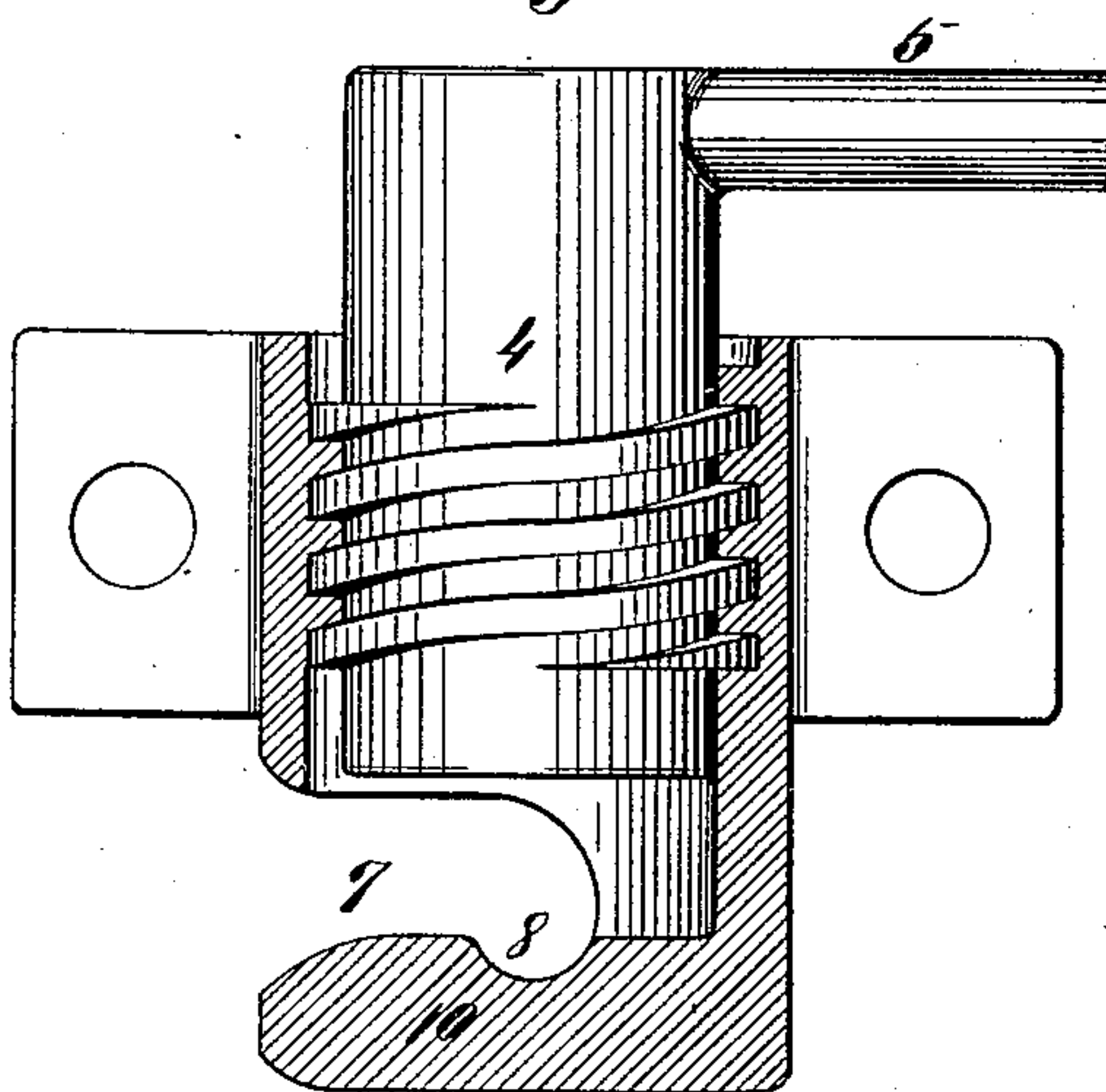
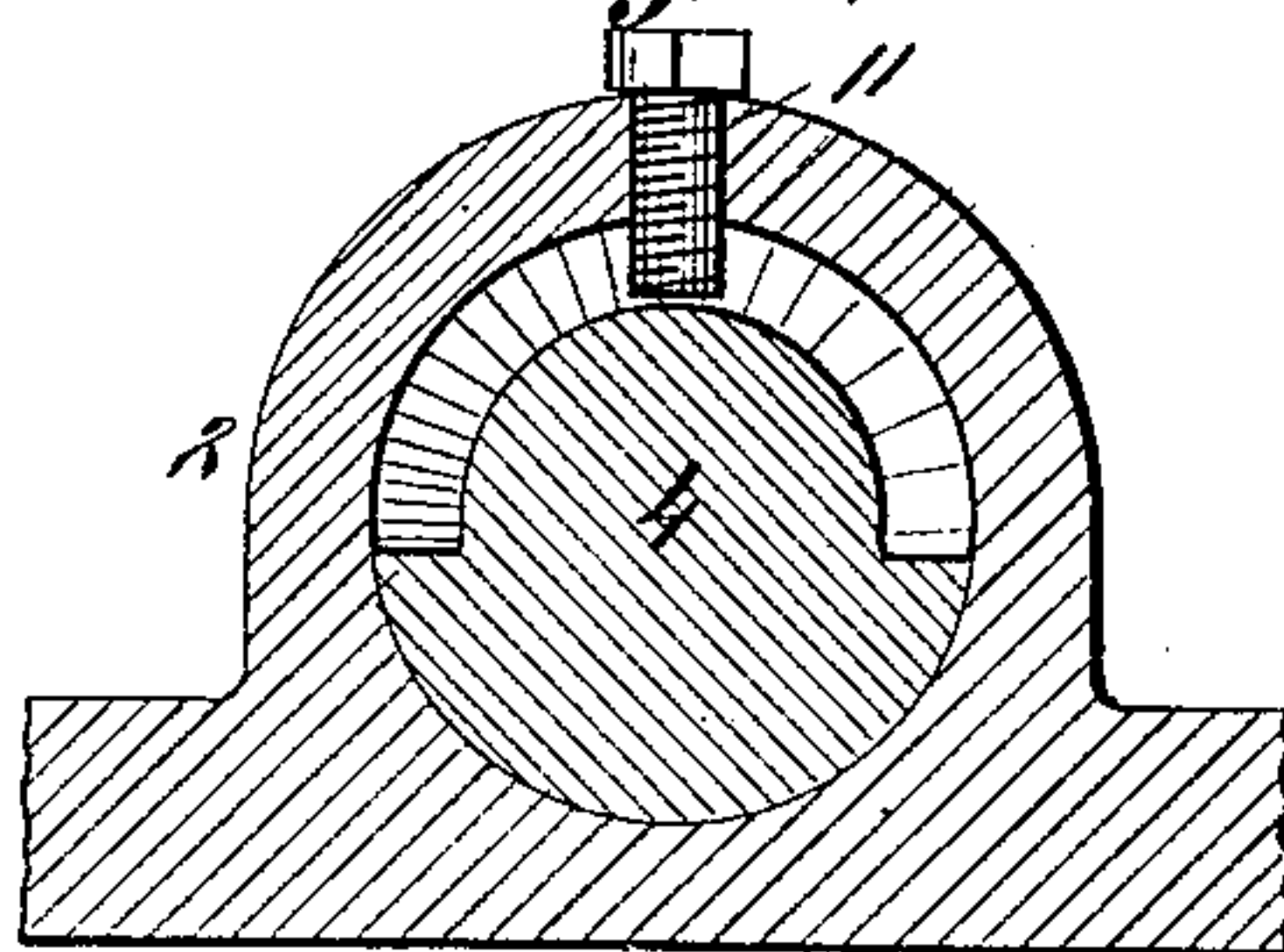


Fig. IV.



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UNITED STATES PATENT OFFICE.

RICHARD D. THACKSTON, OF ST. LOUIS, MISSOURI, ASSIGNOR TO THE
SAFETY HATCH-DOOR COMPANY, OF SAME PLACE.

SAFETY-LOCK FOR ELEVATORS.

SPECIFICATION forming part of Letters Patent No. 386,367, dated July 17, 1888.

Application filed October 26, 1887. Serial No. 253,456. (No model.)

To all whom it may concern:

Be it known that I, RICHARD D. THACKSTON, of the city of St. Louis, in the State of Missouri, have invented a certain new and
5 useful Improvement in Safety-Locks for Elevators, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, and in which—

10 Figure I is a perspective view showing my improved lock and showing part of the cage of an elevator. Fig. II is a top view. Fig. III is a section through the housing of the screw, showing the screw in top view. Fig.
15 IV is a transverse section showing a modification.

My invention relates to an improved lock for passenger and freight elevators for use in buildings; and my invention consists in features of novelty hereinafter fully described,
20 and pointed out in the claim.

Referring to the drawings, 1 represents part of the cage of a passenger or freight elevator. Rigidly secured to the lower part or bottom
25 of the cage 1 is a housing or box, 2, with a threaded opening, 3, in which fits a screw, 4, provided with an operating handle or lever, 5, preferably having a weight, 6, on its outer end, and adapted to be operated by the foot
30 of the operator.

7 represents a transverse opening in the housing or box 2, at the inner end of which may be a recess, 8.

9 represents the shifting rope or cable of the
35 elevator.

The operation of my improved lock is as follows: Supposing the cage to be stopped and it is desired to lock it from movement, the shifting rope or cable 9 is moved into the
40 opening 7, resting, preferably, in the recess 8.

The lever or handle 5 of the screw 4 is now turned over by the foot of the operator from the position shown in Fig. III to the position shown in Fig. II, thus causing the screw to move endwise from the position shown in Fig. 45 III to the position shown in Fig. II, and in doing this clamps the shifting-rope between it and the end 10 of the box or housing, as seen in Fig. II. It is now impossible to move the shifting-rope in either direction, and until the
50 screw 4 is turned backward again the cage will be locked from movement. The weight 6 on the end of the handle or lever 5 tends to prevent the accidental backward movement of the screw. 55

In Fig. IV, I have shown a slight modification, which consists in making the bore or opening 3 of the box or housing smooth, and passing a screw or pin, 11, through the box or housing, the inner end of which engages with
60 the threads of the screw 4.

A lock thus constructed is cheap and durable and effectually accomplishes the object for which it is intended.

I claim as my invention—

65 The combination, with housing 2, secured to the lower part of the cage of an elevator, and having a recess opening transversely at 7 to receive the shipping rope or cable, of screw 4, engaging in said housing, having a smooth
70 end for bearing on the cable, and weighted lever or handle 5, rigid therewith, to be operated by the foot, substantially as described, to clamp the shipping-rope when the latter is passed through opening 7 into recess 8.

RICHARD D. THACKSTON.

In presence of—

GEO. H. KNIGHT,
JOS. WAHLE.