

No. 630,146.

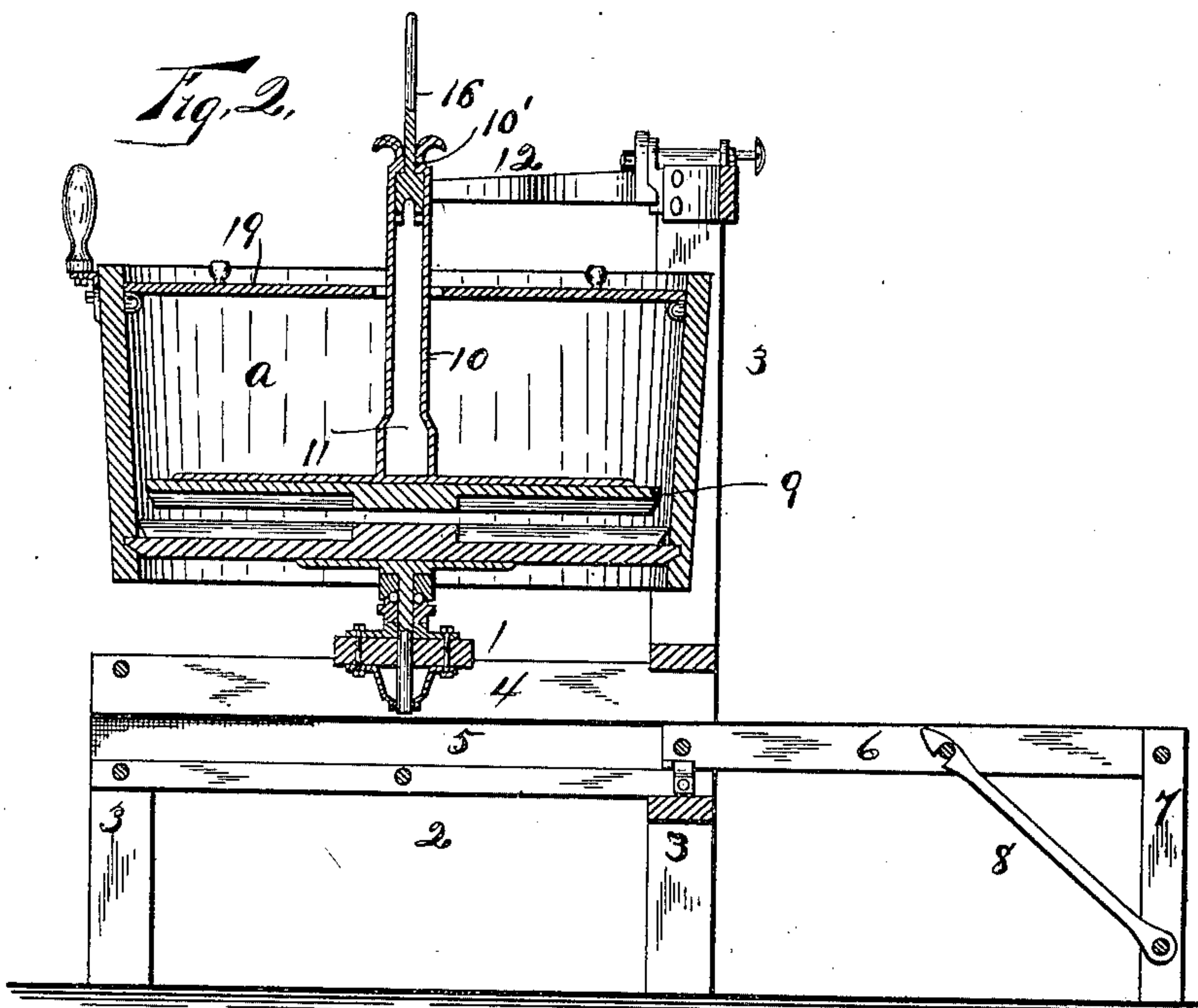
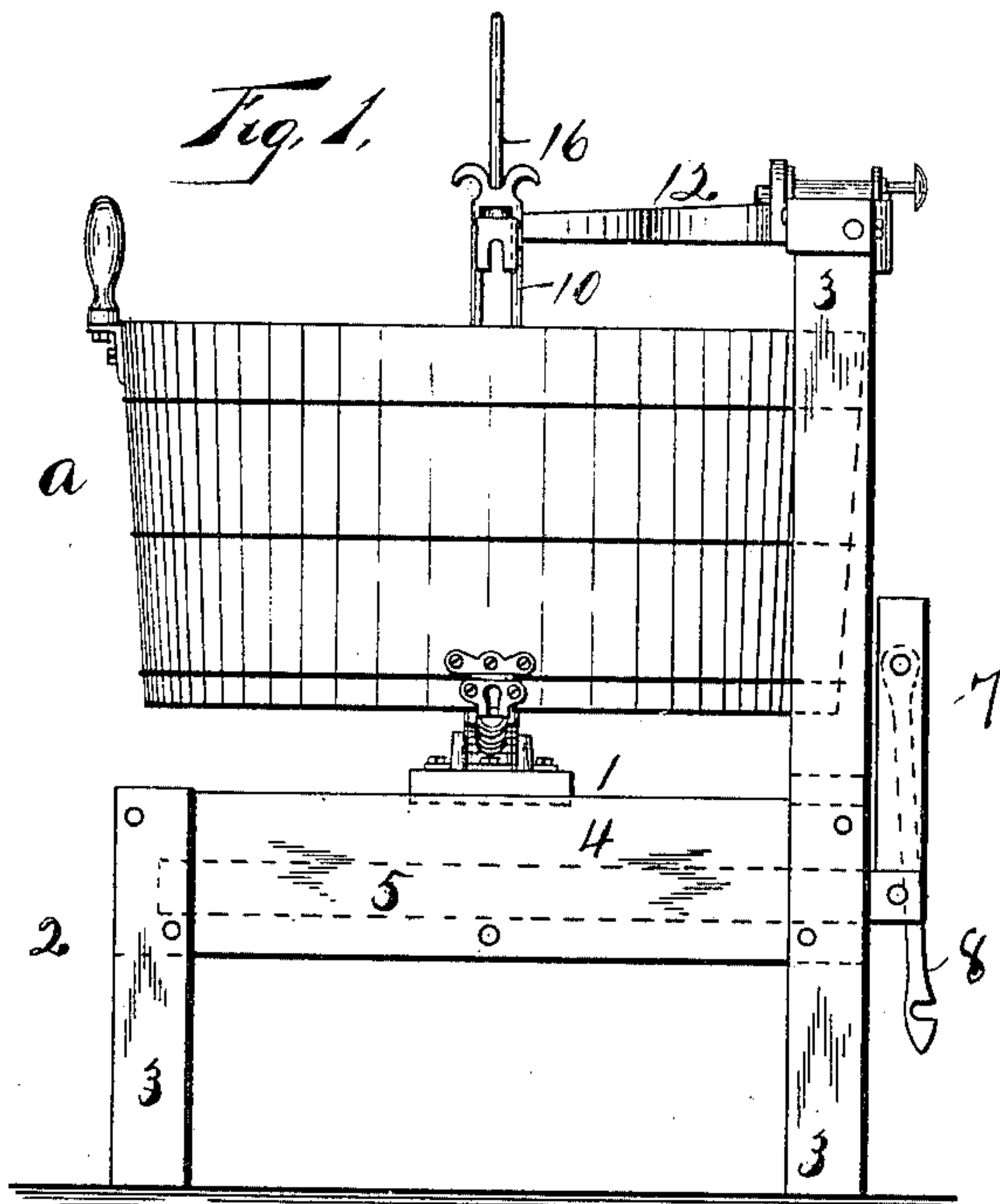
Patented Aug. 1, 1899.

R. L. WEARNE.  
WASHING MACHINE.

(Application filed Apr. 5, 1899.)

(No Model.)

3 Sheets—Sheet 1.



WITNESSES:

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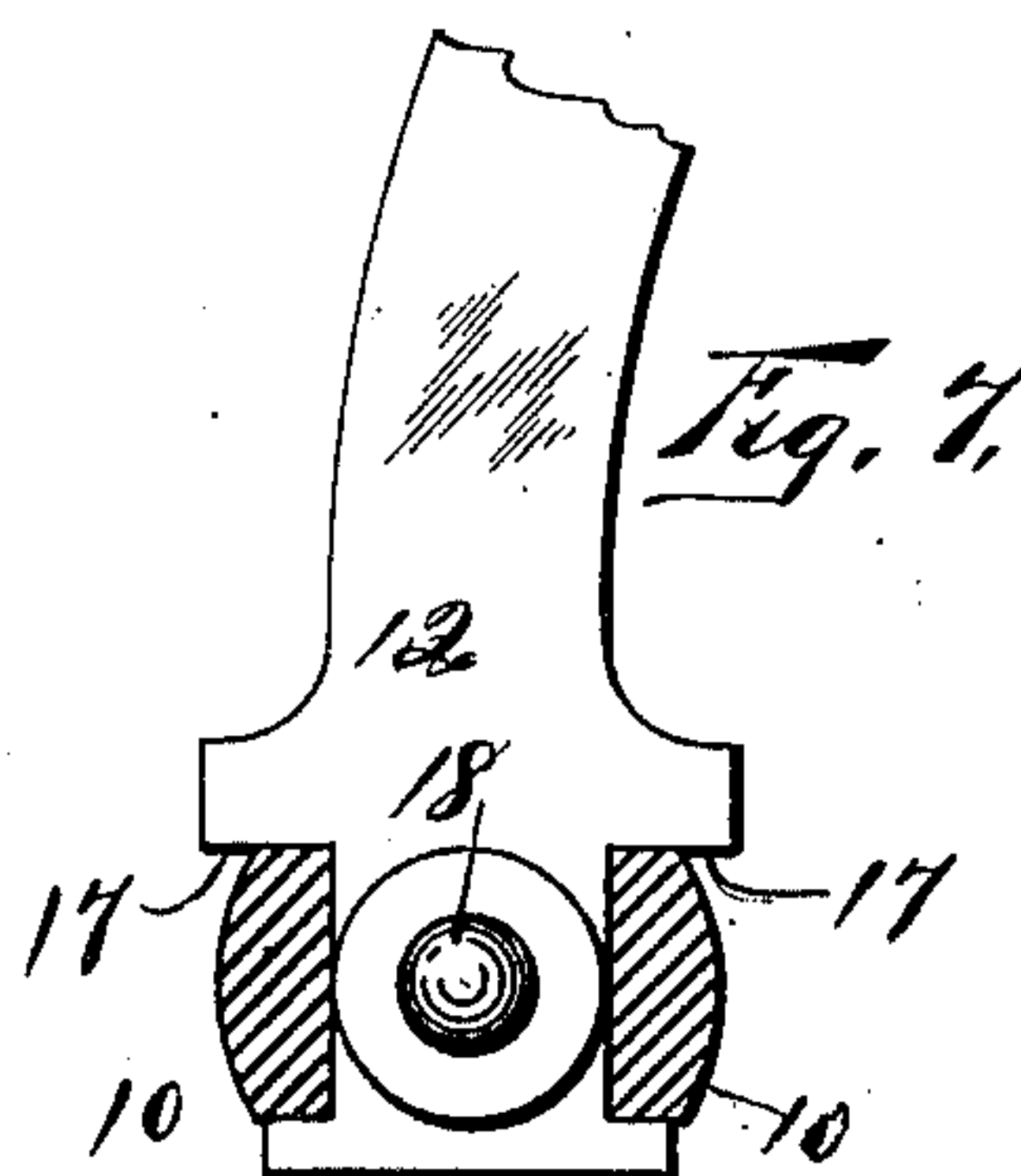
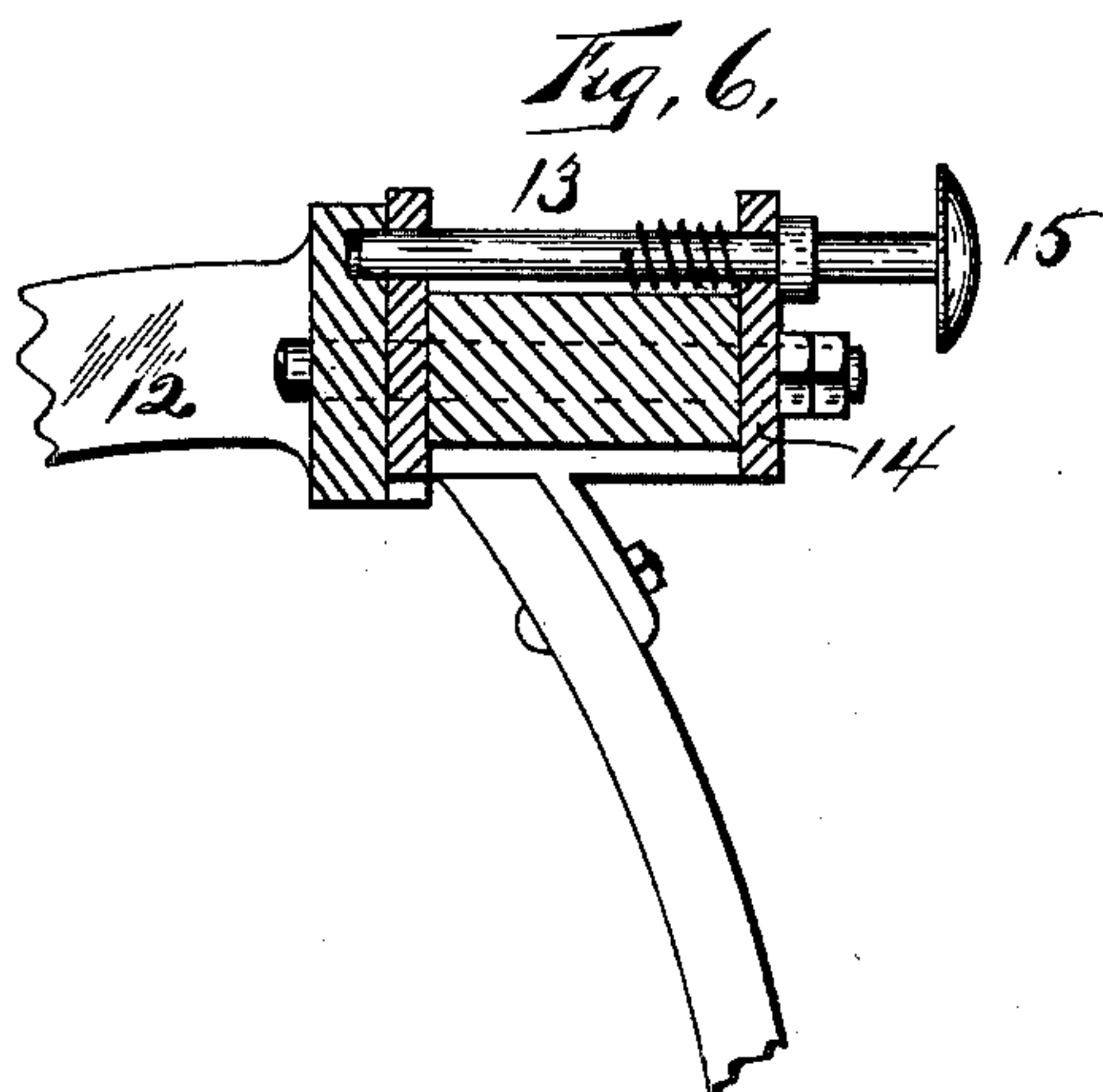
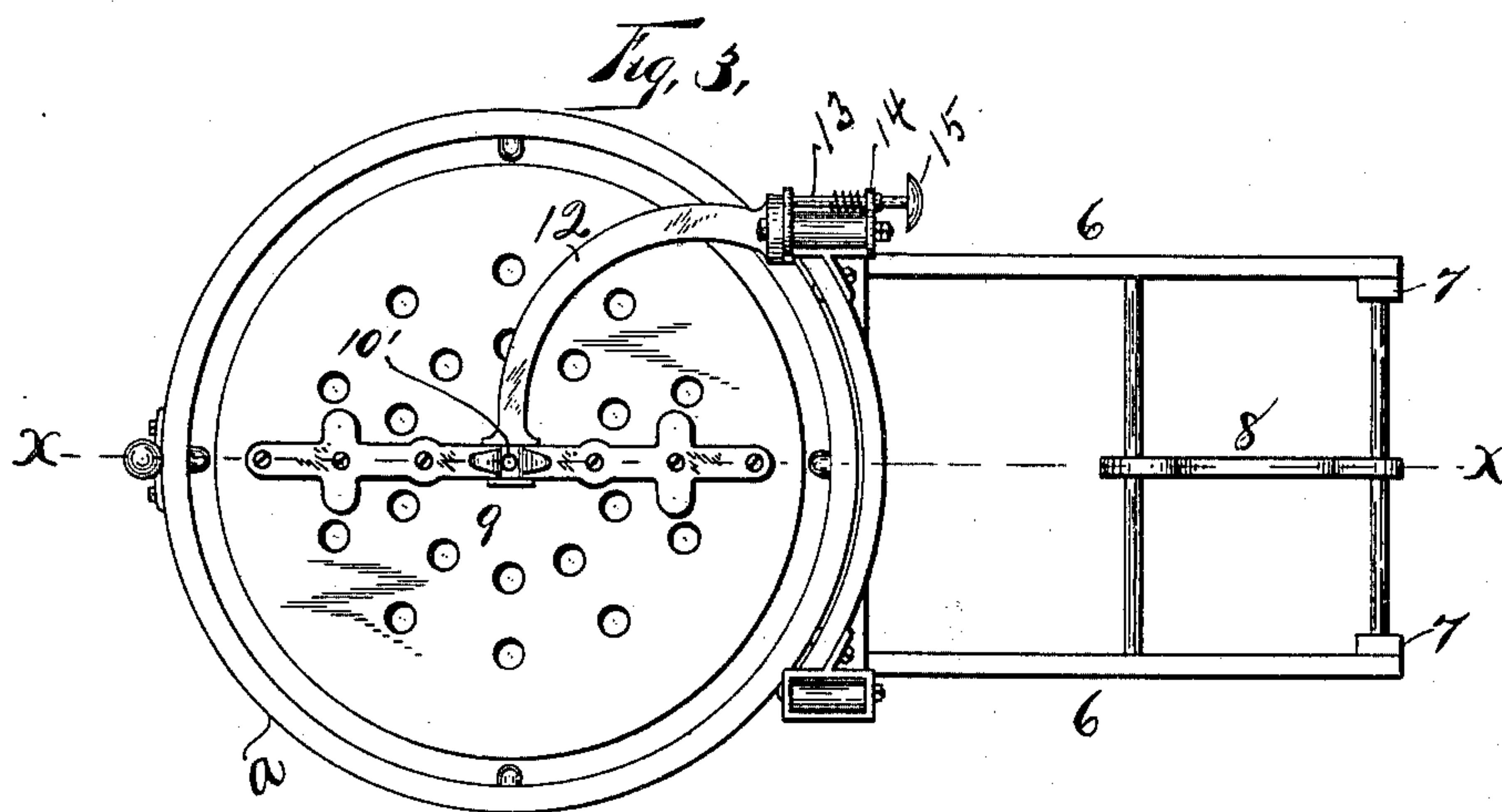
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3 Sheets—Sheet 2.



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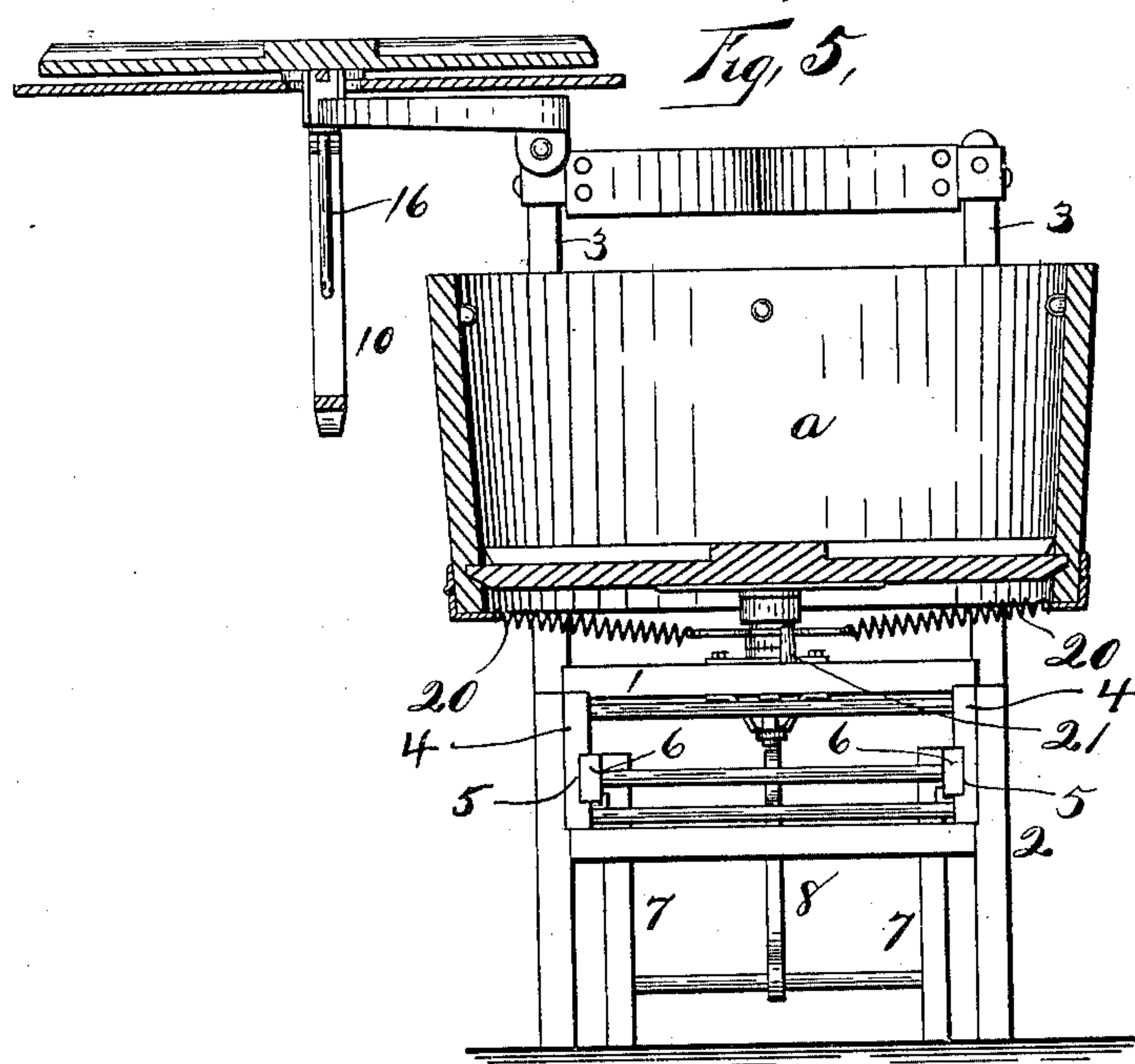
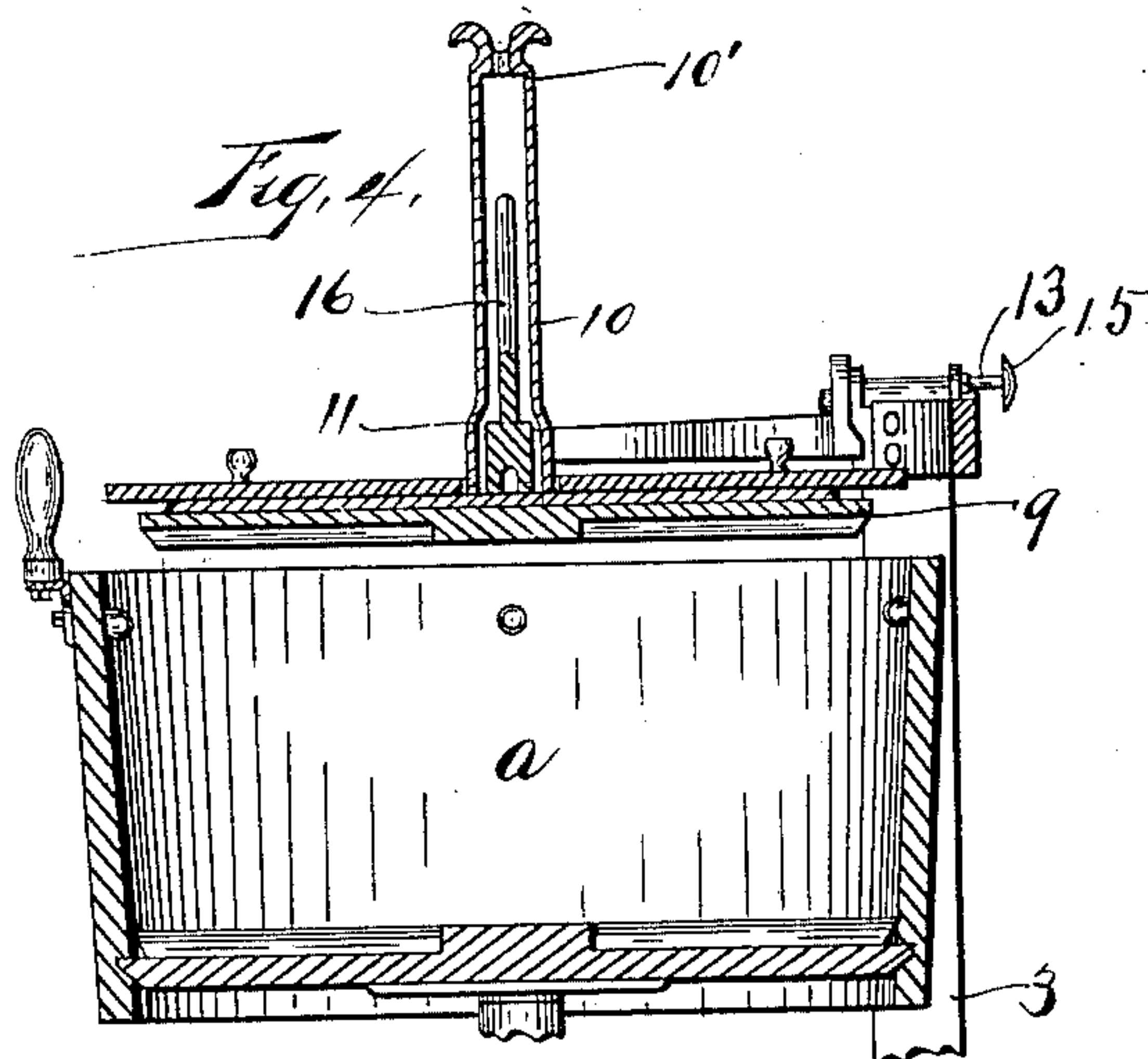
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3 Sheets—Sheet 3.



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# UNITED STATES PATENT OFFICE.

RICHARD L. WEARNE, OF LESTERSHIRE, NEW YORK, ASSIGNOR TO THE  
BINGHAMTON WASHING MACHINE COMPANY, OF SAME PLACE.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 630,146, dated August 1, 1899.

Application filed April 5, 1899. Serial No. 711,787. (No model.)

*To all whom it may concern:*

Be it known that I, RICHARD L. WEARNE, of Lestershire, in the county of Broome, in the State of New York, have invented new and useful Improvements in Washing-Machines, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to improvements in washing-machines. My object is to improve their detail construction and general utility. It is constructed as follows, reference being had to the accompanying drawings, in which—

Figure 1 is a side view of a machine complete and as it would appear when in operation. Fig. 2 is a section on line X X of Fig. 3. Fig. 3 is a top plan view of what is shown in Fig. 1 with the extension part of the bench extended and the cover removed. Fig. 4 is a vertical section through the center of the tub, showing the agitator raised up out of the tub and showing it in the position which it would assume when removing the agitator and cover from the supporting-arm. Fig. 5 shows a somewhat similar view, but showing the agitator and cover thrown over on the swinging arm, where it is held suspended while the clothes are being placed into the tub or removed. Fig. 6 is a section of one end of the swinging arm and the hinge to which it is secured. Fig. 7 is a view of the end of the swinging arm, showing the sleeve in section, to which the agitator is secured.

a is the tub, suitably mounted and having cleats within the bottom and adapted to rotate upon a base 1, which base in turn is mounted upon a bench 2, said bench being provided with standards 3 and cross-bars 4, having suitable trackways 5, in which the extending bars 6 of the extension portion travel, the said extending portion being provided with folding legs 7, which are held in position by braces 8, connecting with cross-bars in the ordinary way.

9 is an agitator having its lower face provided with ribs or corrugations, and 10 are uprights secured thereto, tied or secured together at their upper ends and provided with an opening 10' and the lower end constructed as shown at 11, for the purposes hereinafter specified.

At the top of one of the uprights 3 I hinge a swinging arm 12, and 13 is a spring-actuated pin mounted in a bracket 14 and provided with a finger-piece 15 on one end and the opposite end adapted to engage with recesses in the end of the swinging arm for the purpose of holding the said swinging arm in any position desired—as, for illustration, in the position shown in Figs. 4 and 5.

The free end of the arm 12 is provided with an upright 16 and recesses 17. The recesses 17 are rectangular and adapted to receive the uprights 10 and the pin 16, adapted to pass up through the opening 10' at the top of the uprights. It will be observed that as the uprights 10 rest in the recesses 17 the agitator, which is secured to the uprights 10, will maintain a rigid position, and the tub, being rotatably mounted, may be forced to and fro about the same.

The cover 19 is mounted about the uprights and rests upon lugs within the tub. When it is desired to remove the agitator entirely from the tub, I raise it to a position shown in Fig. 4, (first drawing out the spring-actuated pin 13,) where the uprights are sufficiently wide to allow it to pass over the end of the swinging arm 12 by a lateral movement. When the agitator is raised to the desired position, I allow the pin 13 to engage with a recess in the end of the arm 12, so as to hold it in position.

20 are springs secured to the bottom of the tub and partially rotate with the tub, except that they are limited in their rotation by the pins 21 and serve to utilize the power accumulated in rotating the tub to force it in the opposite direction.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A washing-machine comprising a tub rotatably mounted, and a swinging arm mounted above said tub, and provided upon its free end with a vertical pin and angular recesses in its lateral faces, uprights tied at their upper end, and having an opening, and adapted to travel vertically in said recesses, the said opening adapted to engage with the pin, and the lower end of the uprights provided with an agitator, as set forth.

2. A washing-machine comprising a tub ro-

tatably mounted, and an arm mounted above  
the tub, and extending over said tub, and  
provided with an upwardly-extending pin  
and angular recesses in its lateral edges, the  
5 uprights tied at their upper end, and having  
an opening adapted to engage with said pin,  
the lower end of said uprights separated to  
allow them to pass over the end of the said

swinging arm, and an agitator secured to the  
lower end of said uprights, as set forth. 10

In witness whereof I have hereunto set my  
hand this 1st day of April, 1899.

RICHARD L. WEARNE.

Witnesses:

E. H. CODDING,

M. R. CHRISTIAN.