

No. 860,918.

PATENTED JULY 23, 1907.

G. F. HUTCHINS.

LOOM.

APPLICATION FILED APR. 3, 1907.

Fig. 1.

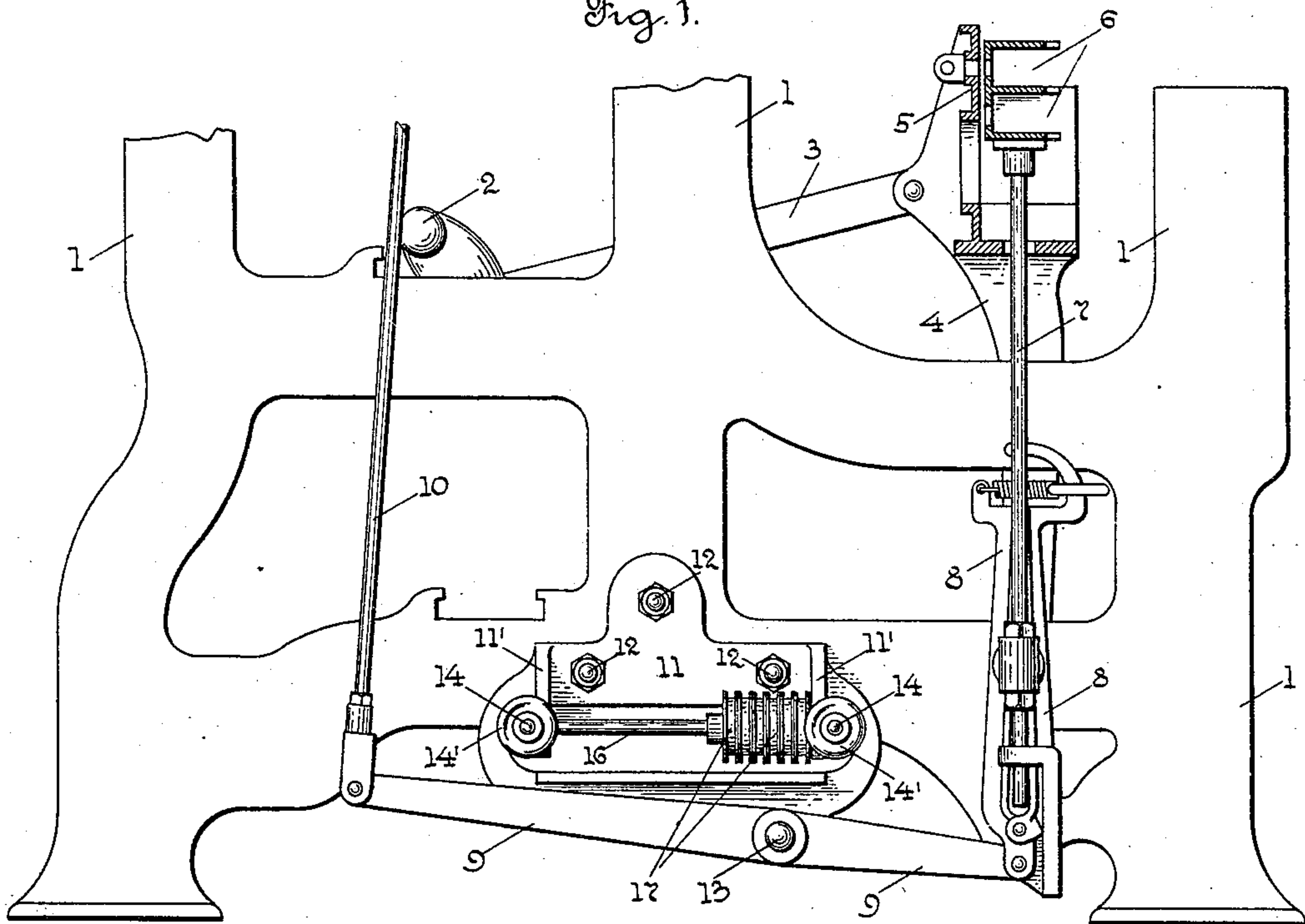


Fig. 2.

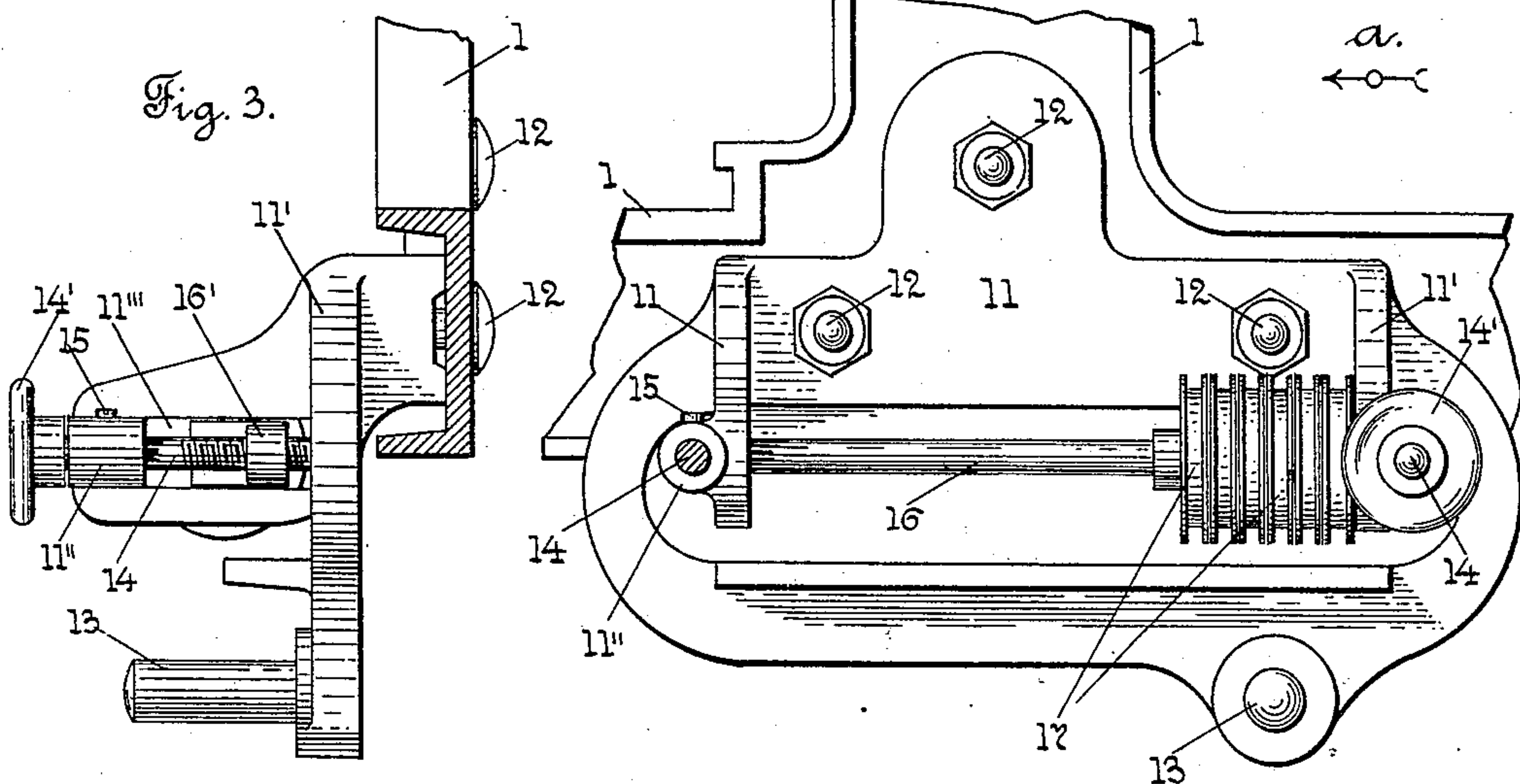
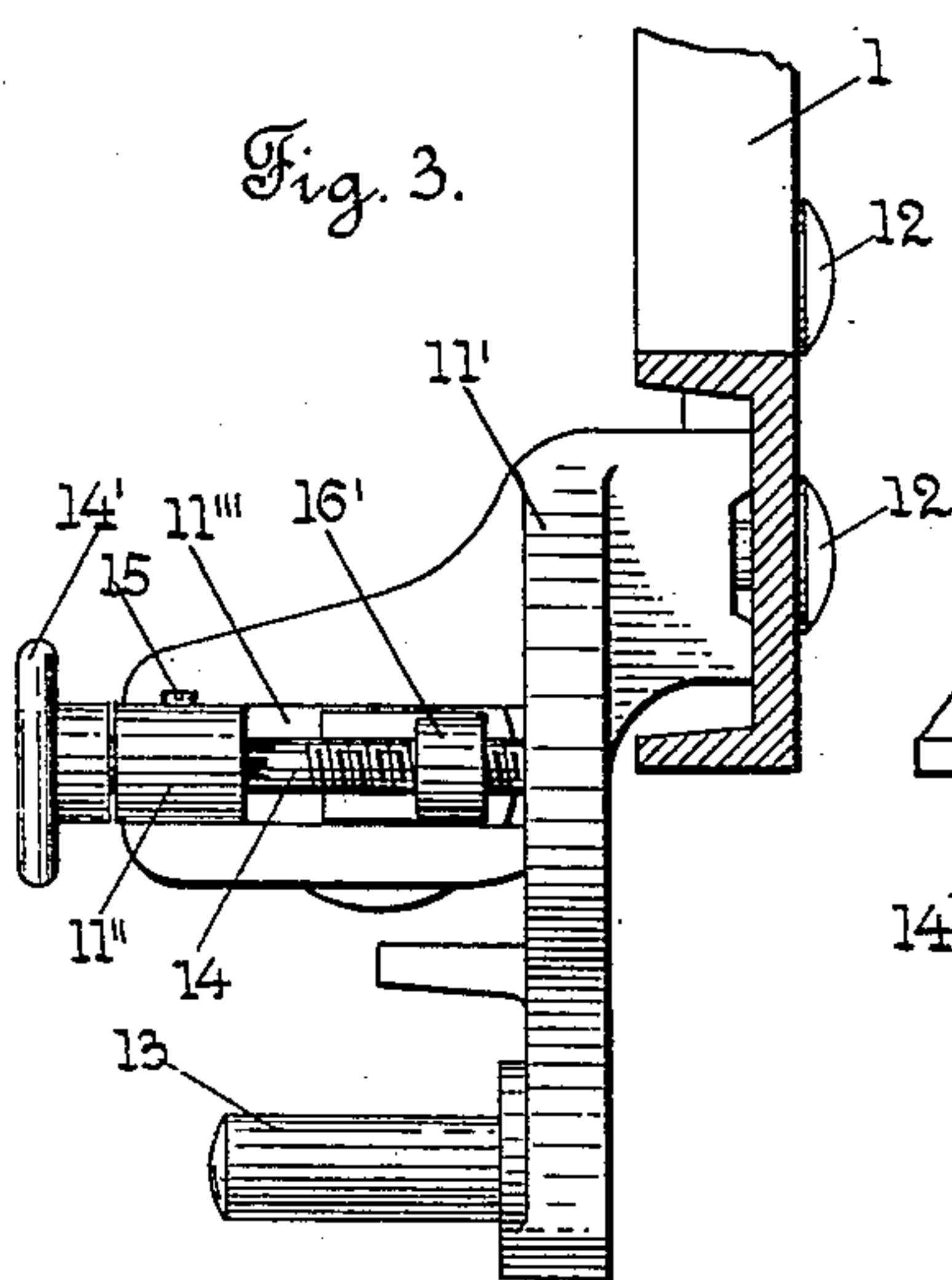


Fig. 3.



Witnesses

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# UNITED STATES PATENT OFFICE.

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## LOOM.

No. 860,918.

Specification of Letters Patent.

Patented July 23, 1907.

Application filed April 3, 1907. Serial No. 366,111.

To all whom it may concern:

Be it known that I, GEORGE F. HUTCHINS, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Looms, of which the following is a specification.

My invention relates to looms, and particularly to a bracket or stand for looms, adapted to be secured to the loom side or end frame, and form a support for the box lever of the box motion, and also a support for the guide sheaves of the harness connections, said sheaves being preferably located directly over the box lever.

The object of my invention is to provide a combined box lever and sheave bracket or stand, for the purpose stated, and my invention consists in certain novel features of construction of my improvements as will be hereinafter fully described.

I have only shown in the drawing, a detached portion of a shuttle box motion of well known construction and operation, and my improved bracket or stand combined therewith.

Referring to the drawing:—Figure 1 shows a detached portion of a loom end frame, and a detached portion of a shuttle box motion, and also my improved bracket or stand combined therewith; the shuttle boxes and shuttle guide frame are shown in section. Fig. 2 shows, on an enlarged scale, the bracket shown in Fig. 1, detached, with one of the hand wheels left off. Fig. 3 is an end or edge view of the parts shown in Fig. 2, looking in the direction of arrow *a*, same figure.

In the accompanying drawing, 1 is the loom frame or end, 2 the crank shaft, 3 the connector to the lay, 4 the lay sword, 5 the shuttle box guide frame, 6 two shuttle boxes mounted on the upper end of a shuttle box rod 7, 8 is a give-way mechanism, connected to the shuttle box rod 7 and pivotally attached at its lower end to one end of the box lever 9; the other end of the box lever 9 is attached to the lower end of a connector 10, leading to the shuttle box operating mechanism, not shown. All of the above mentioned parts may be of the usual and well known construction.

I will now describe my improvements. The bracket or stand 11, forming a combined box lever and sheave bracket or stand, is preferably of the shape shown, and is attached by bolts 12, or otherwise rigidly secured, preferably to the lower part of the end frame 1 on the outside thereof, and in this instance near the central portion thereof. The bracket 11 has a stud or pin 13

secured thereto, preferably at its lower part and extending out therefrom. The pin 13 forms the fulcrum or pivot support for the box lever 9. On the bracket 11 are two outwardly extending projections or arms 11', each of which has a boss 11'' thereon, which has an opening therein to loosely receive an adjusting screw 14. A screw 15, is in this instance mounted in the boss 11'', and extends into an annular recess in the adjusting screw 14, and prevents longitudinal movement of said screw 14. Each adjusting screw 14 has in this instance a circular or wheel shaped engaging end 14'. Each of the arms 11', has an elongated opening 11''' therein, through which loosely extends and is adapted to move in a horizontal plane, a block or projection 16' on the ends of a rod 16. Each block or projection 16' has a threaded opening therethrough to receive the threaded end of the adjusting screw 14. The turning of the adjusting screws 14 in one direction or the other, will move the ends 16' on the rod 16 inwardly or outwardly, to adjust the position thereof, as desired. Loosely mounted on the rod 16 are a series of sheaves 17, around which the connections from the harness jacks, not shown, pass.

By means of my bracket or stand, I provide in one device, a support for the box lever of the shuttle box motion, and also a support for the guide sheaves for the harness connections, said sheaves being located directly over the box lever.

It will be understood that the details of construction of my improvements may be varied if desired.

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

1. In a loom, the combination with a bracket or stand secured to the loom frame, of a box lever pivotally mounted on said bracket, and a rod supported on said bracket for the guide sheaves of the harness connections and said guide sheaves.

2. In a loom, the combination with a bracket or stand secured to the loom frame, of a box lever pivotally mounted on said bracket, and a rod adjustably supported on said bracket, over the box lever, for the guide sheaves of the harness connections and said guide sheaves.

3. In a loom, the combination with a bracket or stand secured to the loom frame, of a box lever pivotally mounted on said bracket, and a rod supported on said bracket, and guide sheaves mounted on said rod.

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Witnesses:

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M. HAAS.