

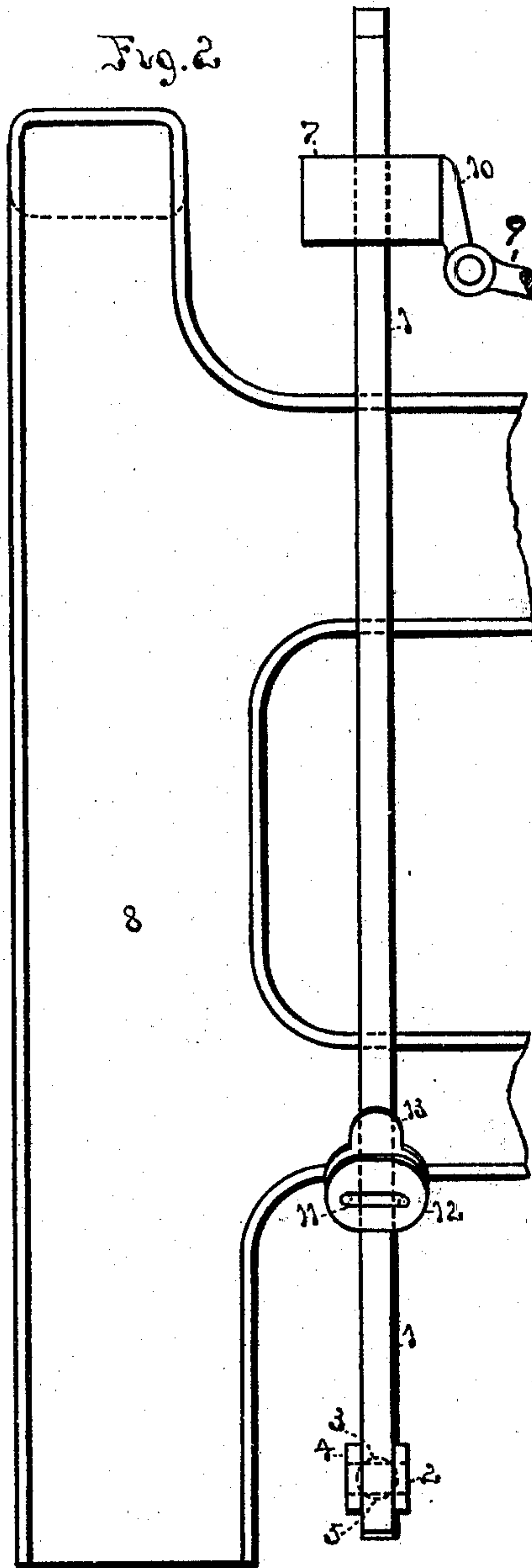
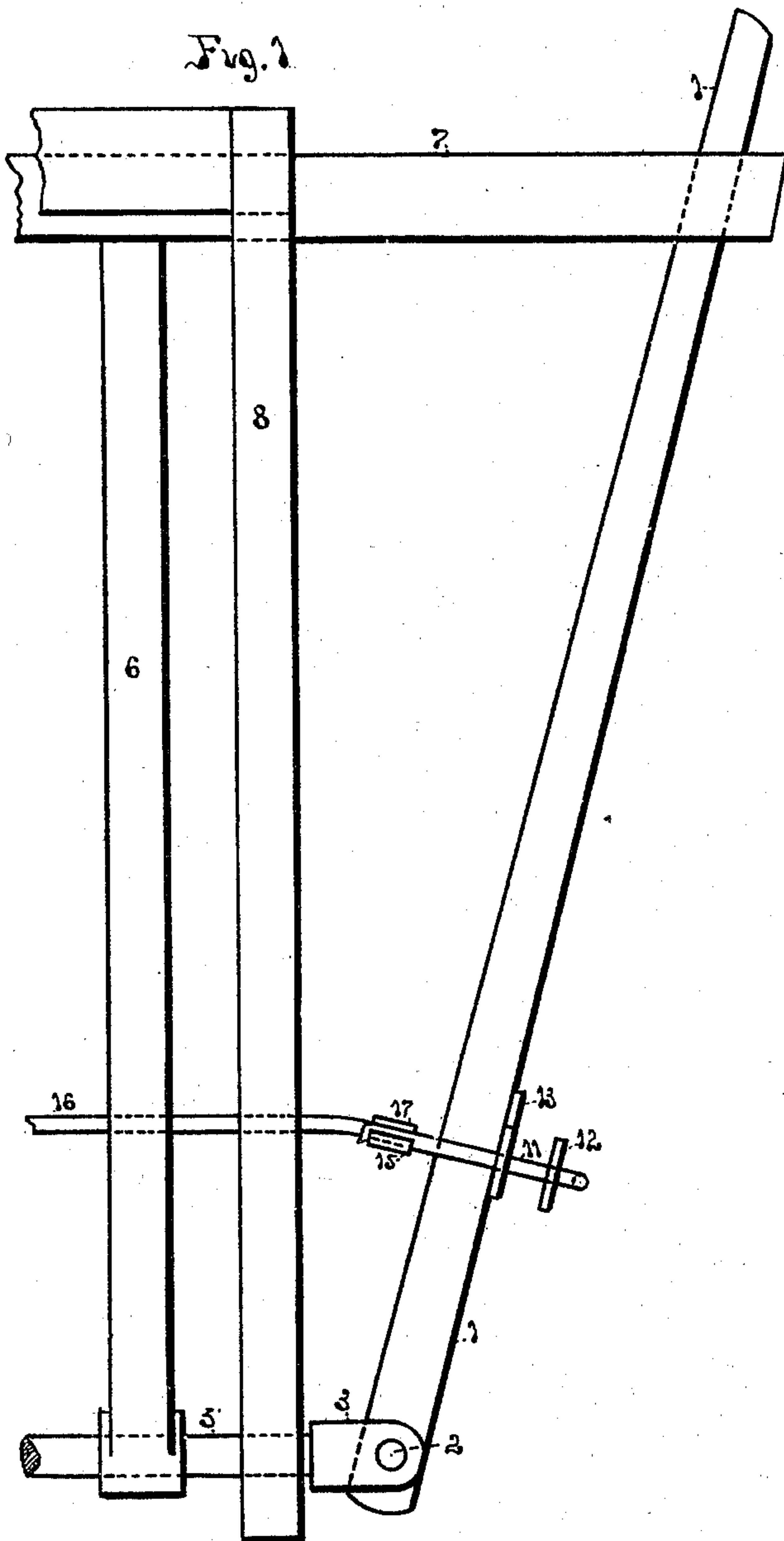
(No Model.)

2 Sheets—Sheet 1.

O. A. SAWYER & M. M. LAHUE.
PICKER STRAP FOR LOOMS.

No. 585,877.

Patented July 6, 1897.



Witnesses

Wm. C. Brown
A. P. Ockington.

Inventors

Moses M. Lahue
Owen A. Sawyer
by their attorney,
Lepine Hall Rice.

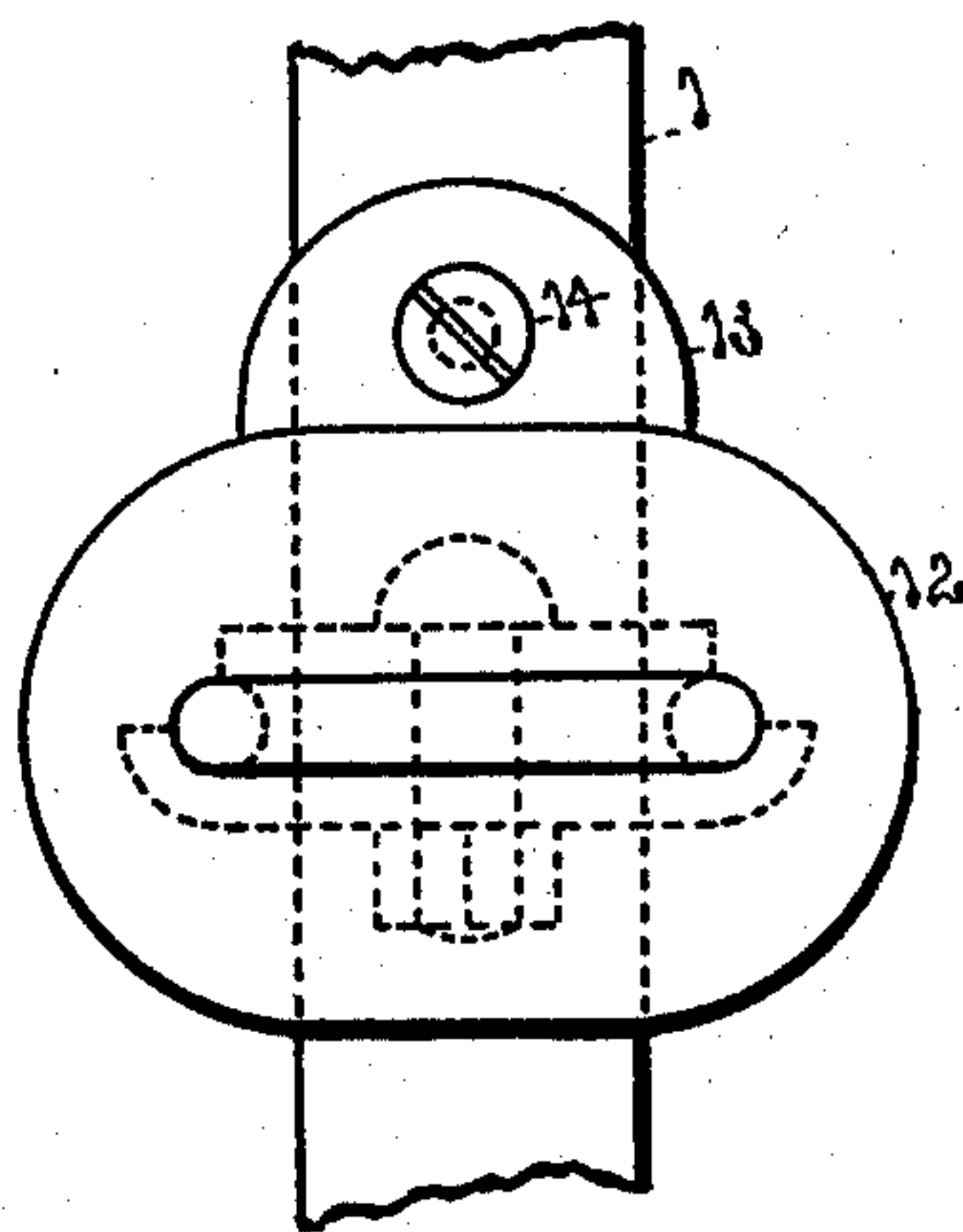
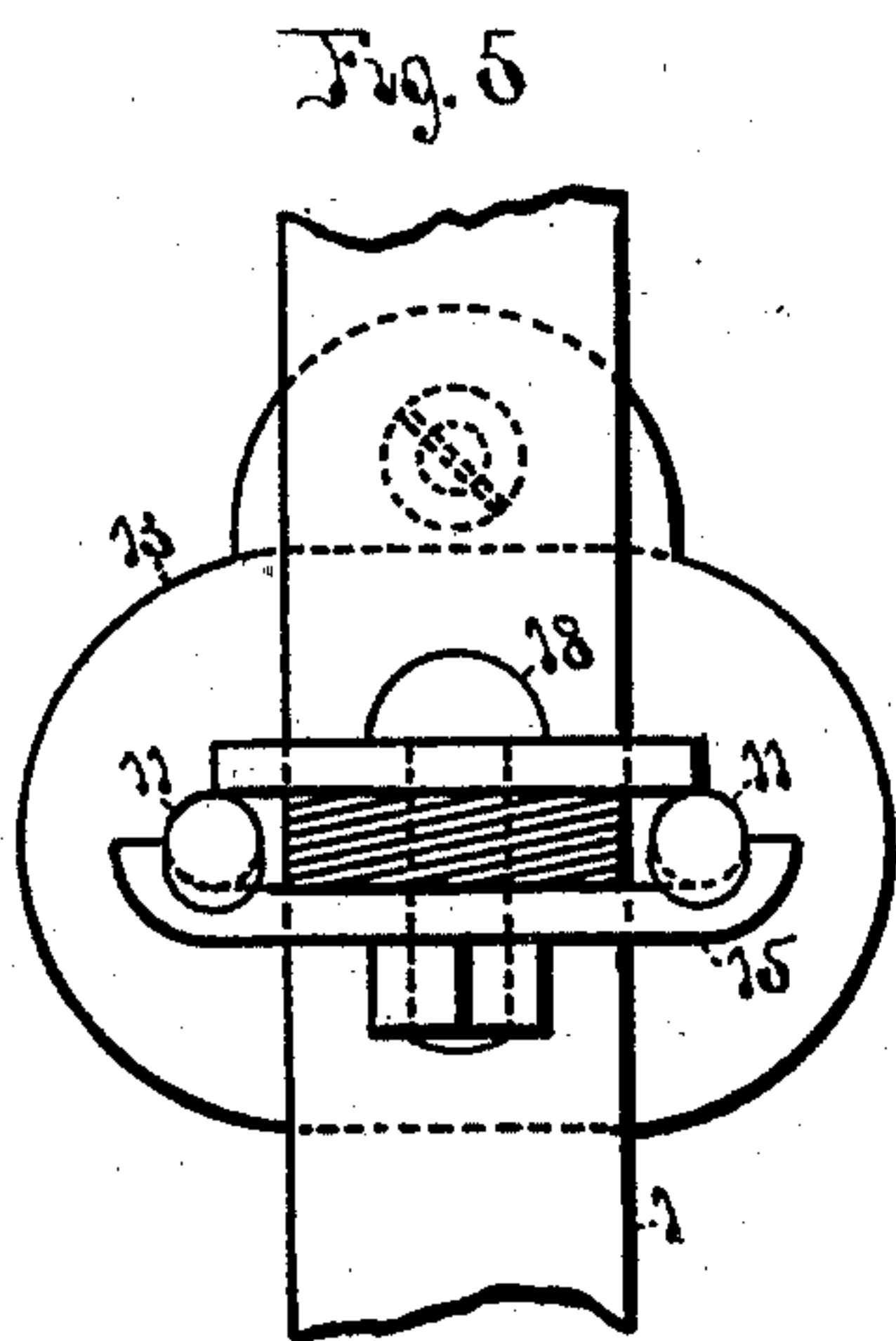
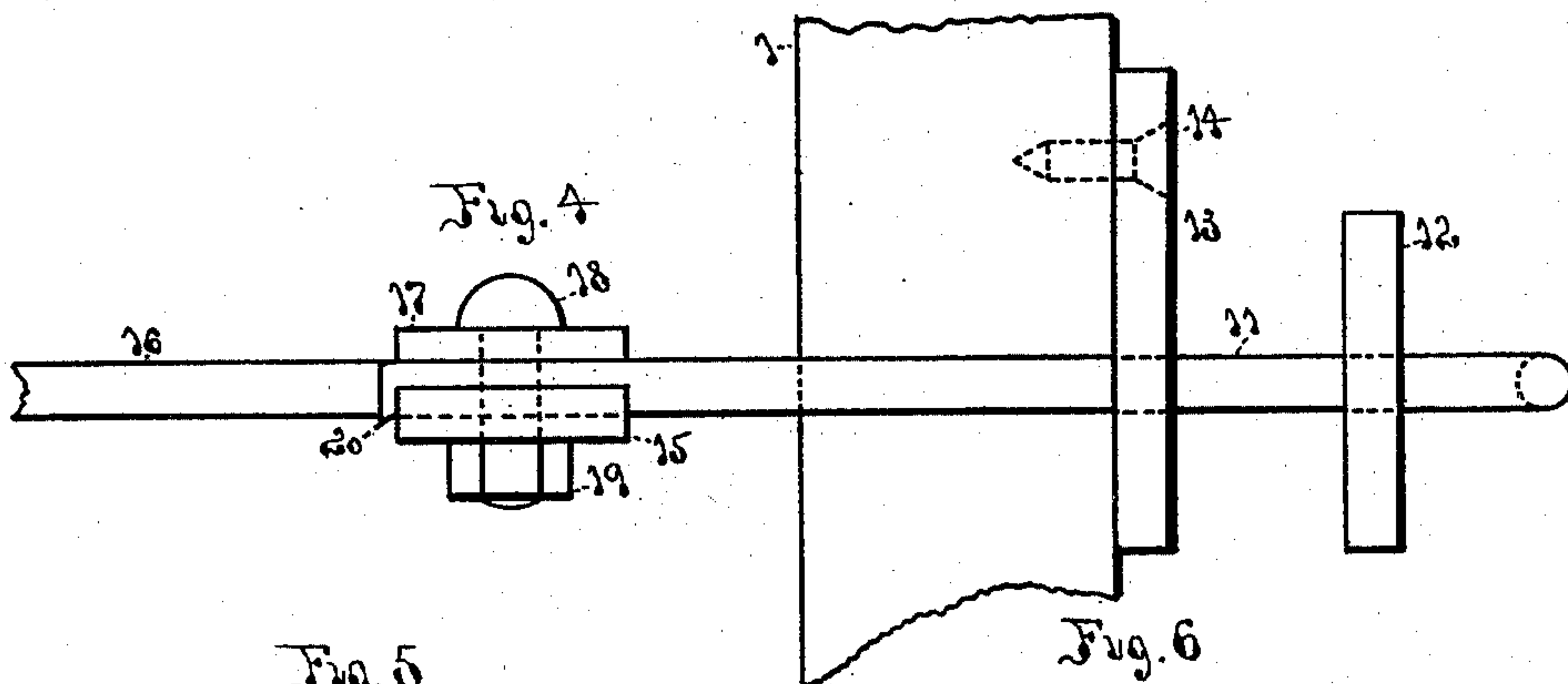
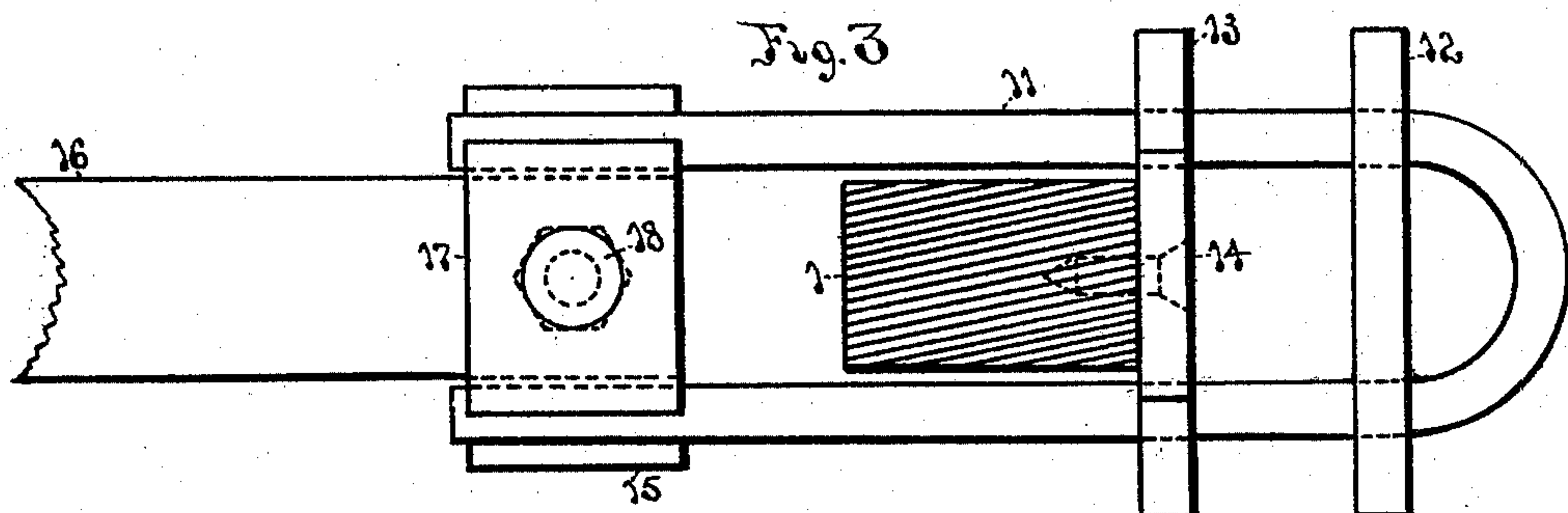
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Moses M. Lahue

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by

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attorney

UNITED STATES PATENT OFFICE.

ORREN A. SAWYER AND MOSES M. LAHUE, OF LOWELL, MASSACHUSETTS;
SAID SAWYER ASSIGNOR TO SAID LAHUE.

PICKER-STRAP FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 585,877, dated July 6, 1897.

Application filed July 9, 1896. Serial No. 598,534. (No model.)

To all whom it may concern:

Be it known that we, ORREN A. SAWYER and MOSES M. LAHUE, of Lowell, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Looms, of which the following, taken in connection with the accompanying drawings, is a specification.

The form in which we prefer to embody our invention is that shown in the drawings, in which—

Figure 1 is a side view of that portion of a loom comprising the picker-staff and connected mechanism. Fig. 2 is an end view of the same. Fig. 3 is a top view of the pick-strap connection with the staff. Fig. 4 is a side view of the same. Fig. 5 is an end elevation of the same from the left end. Fig. 6 is an end elevation of the same from the right end.

Our invention relates to the connection between the pick-strap and the staff.

The staff 1 is of the usual shape, and is pivoted by a pin 2 in a slot 3 in the head 4 of the shaft 5, which carries the sword 6.

7 is the usual lay-sill, and 8 is the frame of the loom. 9 is the pitman, and 10 its bearing on the lay-sill.

We take a round rod 11 and bend it into a U shape, making the clear distance between the stems of the U somewhat greater than the thickness of the staff 1. We then cut out two leather pieces whose outline is immaterial, but one of which, 12, we make oval, while the other, 13, we provide with a tab or flap, and we punch two holes in each piece, so that they will slip upon the U-shape rod. The oval piece is slipped on first and pushed to the bend of the U. The flapped piece is then attached to the picker-staff by a screw 14 at whatever distance from the pivot of the staff will give the desired power. A plate 15, with bent-up ends, is now placed under the ends of the U, the pick-strap 16 is laid upon

it and between the stems of the U, and a leather washer 17 laid over that, and all are clamped together by a bolt 18 and nut 19, passing through corresponding holes in them. To make the clamp surer, the extreme ends of the U are bent down, as at 20, to form shoulders. Thus, however violent and frequent the jerks on the pick-strap, it can never pull loose from its connection. Owing to the different angles of the staff with respect to the direction of pull of the strap the ordinary connection chafes the sides of the staff, as well as wearing out the connecting-loop; but with our connection the U-shaped rod never touches the staff and all the wear comes on the leather piece 13. The rod being round, even that wear is slight. The leather piece 12 is pressed slightly into the bend of the U at each pull of the strap and forms an exceptionally simple and durable cushion, its elasticity relieving the strain on the staff and on the shuttle. All the parts are easy to make and replace and will wear a long time.

We claim as new and of our invention—

The combination with a picker-staff and the pick-strap, of a connection between the said strap and staff consisting of a U-shaped rod embracing the staff and secured to the strap, a piece 13, through which the rod plays, and which is attached to the staff, and a flat piece 12, strung upon the rod next the bend of the U, so as to subtend like a chord the arc of the bend, but located out of contact with the bend.

In testimony whereof we have signed our names to this specification, in the presence of two subscribing witnesses, on this 1st day of July, A. D. 1896.

ORREN A. SAWYER.
M. M. LAHUE.

Witnesses:

ALFRED P. BATEMAN,
FLORENCE N. STANLEY.