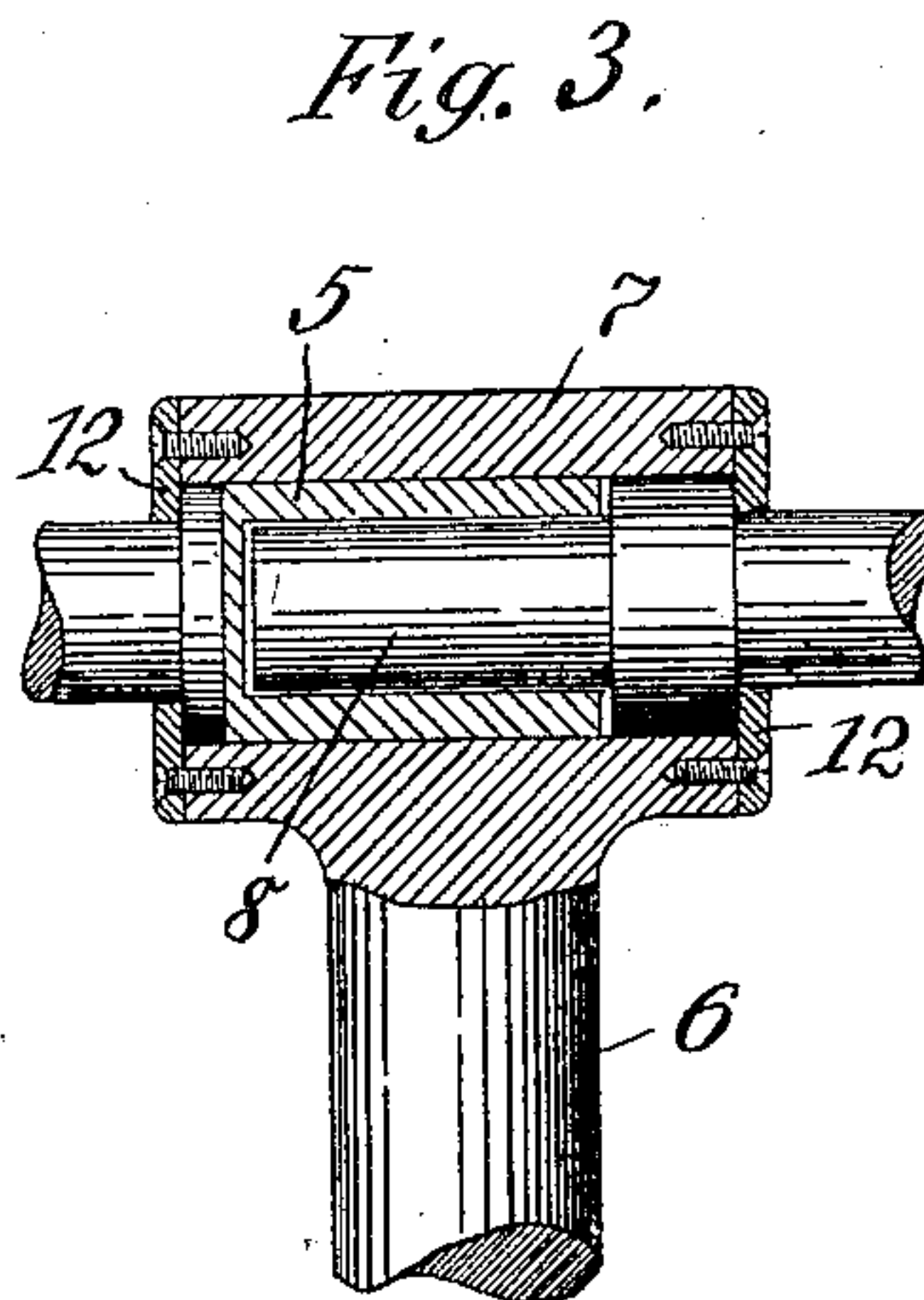
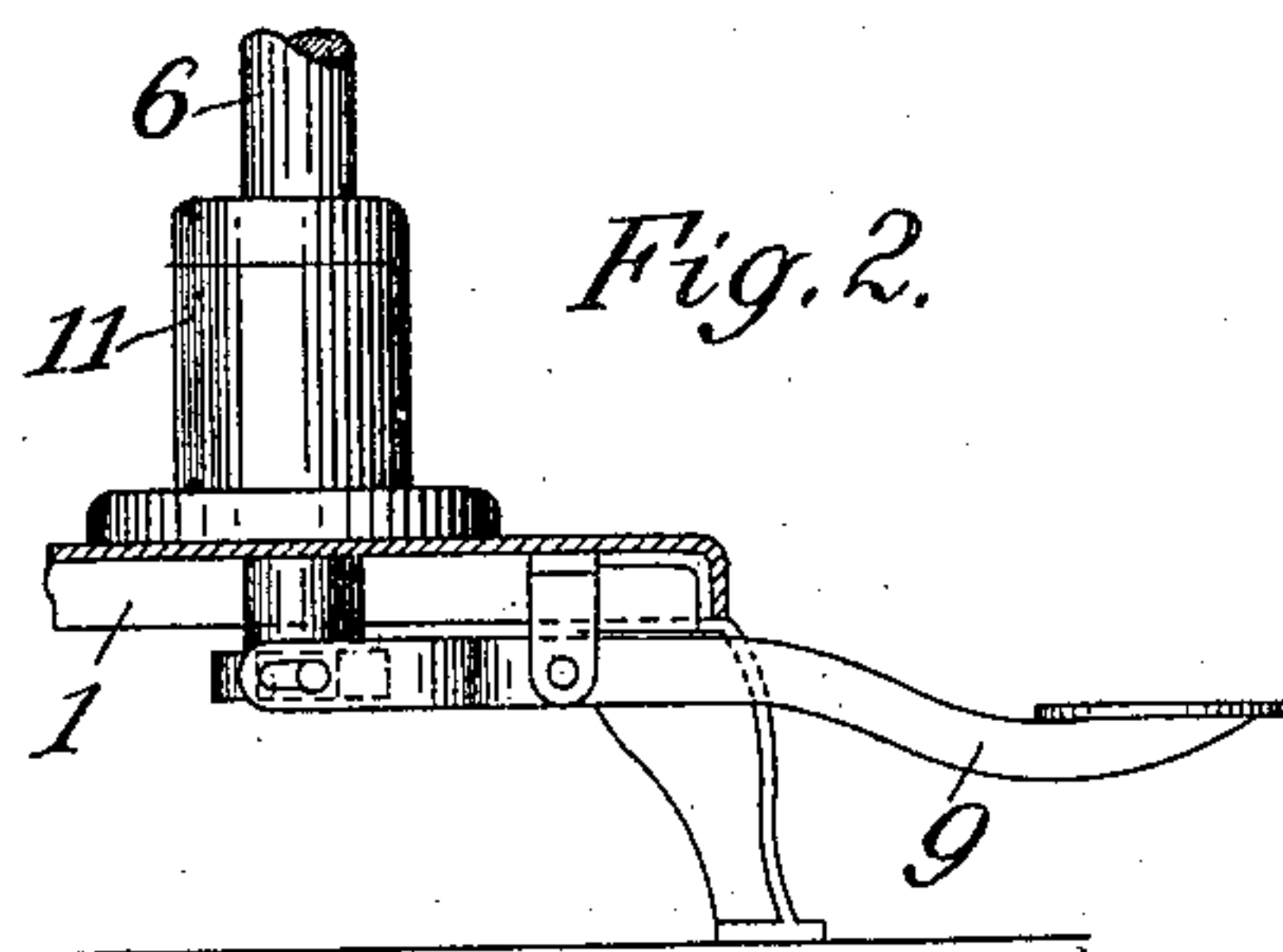
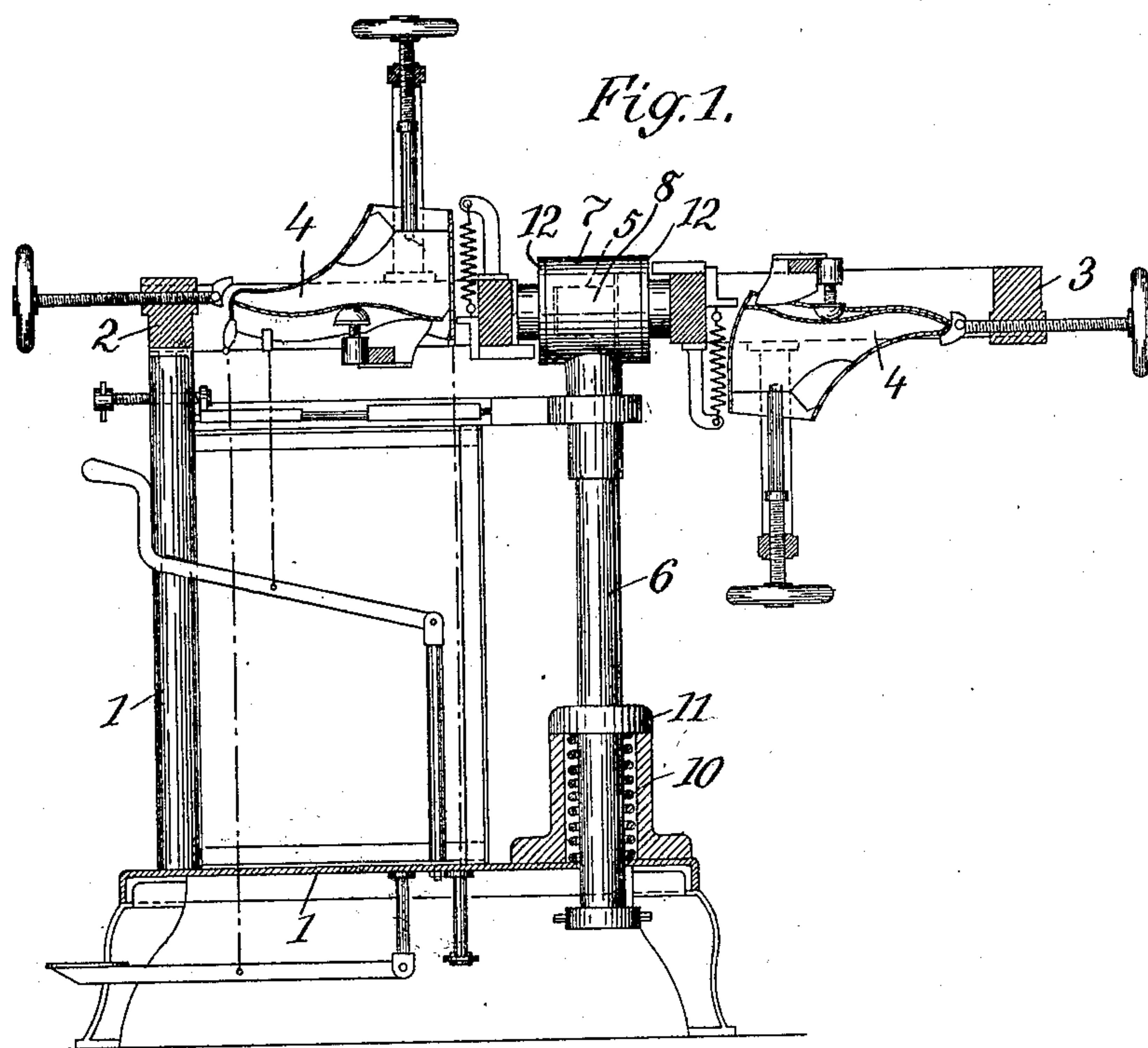


J. ARMBRUSTER.  
PULLING OVER MACHINE.  
APPLICATION FILED JUNE 10, 1908.

922,235.

Patented May 18, 1909.



Witnesses:  
L. Dourville,  
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# UNITED STATES PATENT OFFICE.

JAKOB ARMBRUSTER, OF SOLTAU, GERMANY.

## PULLING-OVER MACHINE.

No. 922,235.

Specification of Letters Patent.

Patented May 18, 1909.

Application filed June 10, 1908. Serial No. 437,675.

*To all whom it may concern:*

Be it known that I, JAKOB ARMBRUSTER, director, German subject, residing at No. 261 Marktstrasse, Soltau, Germany, have invented new and useful Improvements in Pulling-Over Machines, of which the following is a specification.

My invention relates to improvements in pulling over machines of that class in which the movable frame holding the last is swung clear of the machine framing about a vertical axis and is then tipped over about a horizontal axis.

According to the present invention the machine is provided with twin frames, turning about a common vertical axis, while each frame can be tilted independently of the other about a horizontal axis.

The invention is illustrated in the accompanying drawing, in which—

Figure 1 is a side elevation and part section of the machine, Fig. 2 a front elevation of a bottom portion, and Fig. 3 a section through the bearing with the horizontal journals of the two frames, drawn to a somewhat larger scale.

The machine has two frames 2, 3 of like construction, so that the last 4 can be fixed in either frame for the purpose of lasting the shoe-upper.

The horizontal journal 5 of the frame 2 is mounted in a bearing 7 at the top of the pillar 6 and is hollow, so as itself to act as bearing for the horizontal journal 8 of the twin frame 3. The frames 2 and 3, therefore, can be tipped over on their horizontal journals independently of each other. The pillar 6, on the other hand, which presents the bearing 7, serves as common vertical axis of rotation for both frames.

In order to facilitate lifting, by means of the treadle 9, of the frame in which the upper-leather has been stretched on the last, a spring 10 is furnished, one end of which rests

on the framing 1 of the machine, while the other end bears against a collar 11 on the pillar 6.

To prevent shifting of the horizontal journals of the frames, they are formed with a shoulder, which butts against disks 12 secured in suitable manner to the bearing 7.

Owing to the provision of twin frames, two hands can work at the same machine simultaneously. While one operative at the one frame 3 is securing the stretched upper-leather to the insole, the second operative can be drawing a second upper over the last in the other frame 2.

Having thus described my invention, what I claim as new is:—

1. In a pulling over machine, in combination, a vertical pillar, and two horizontal last-carrying frames mounted thereon and capable of being rotated in a horizontal plane about the vertical axis of the pillar, each frame having a horizontal journal-pin mounted on the pillar, the journal-pin of the one frame turning inside the journal-pin of the other frame, whereby the frames can be independently tilted about their horizontal axes, substantially as described.

2. In a pulling over machine, in combination, a vertical spring-actuated pillar, and two horizontal last-carrying frames mounted thereon each capable of being turned independently about their horizontal axes and also of being rotated in a horizontal plane about the vertical axis of the pillar, and means for elevating the pillar, substantially as described.

In witness whereof I have hereunto signed my name this 23d day of May 1908, in the presence of two subscribing witnesses.

JAKOB ARMBRUSTER.

Witnesses:

MEYER BEHR,  
HERMAN MEYER.