

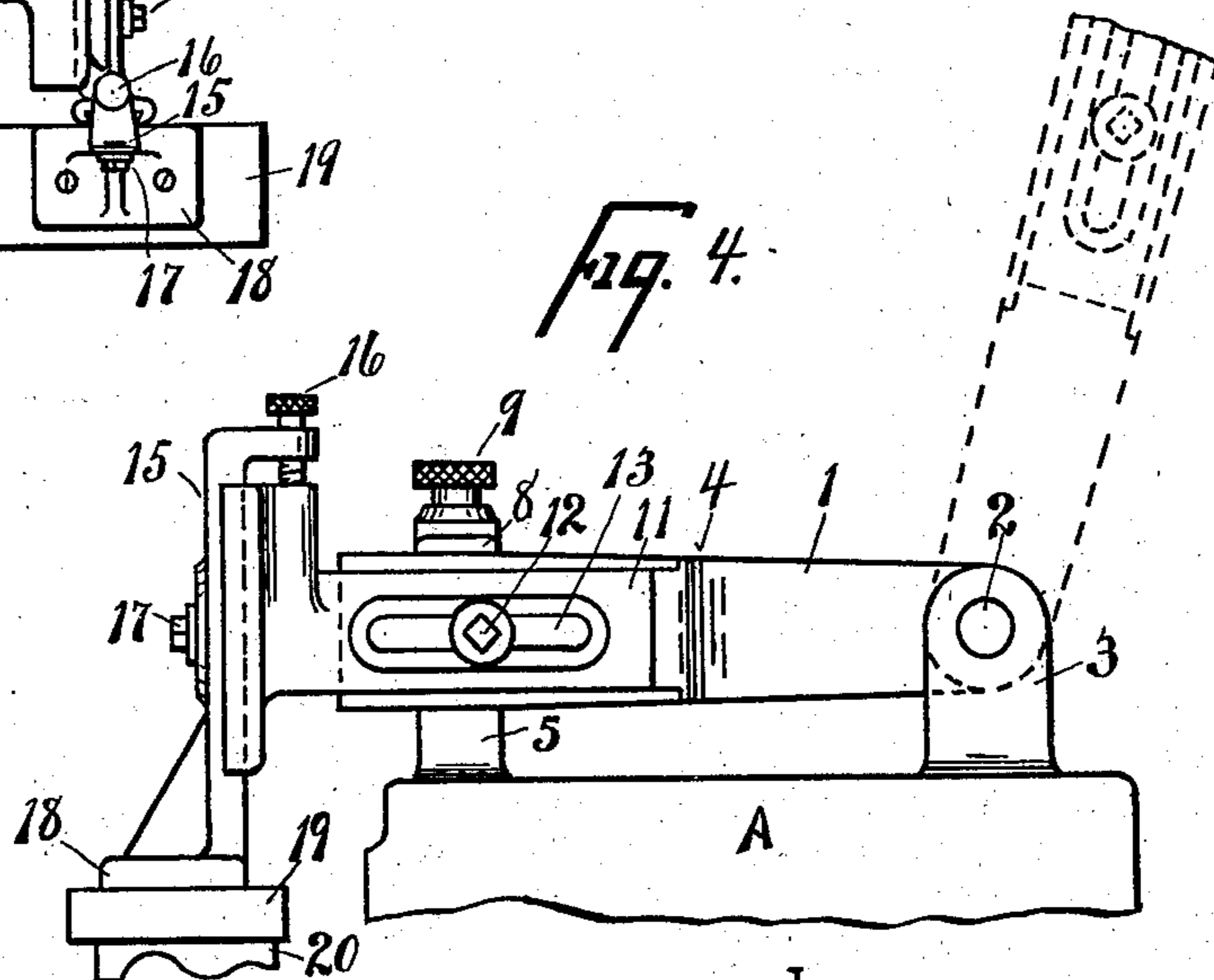
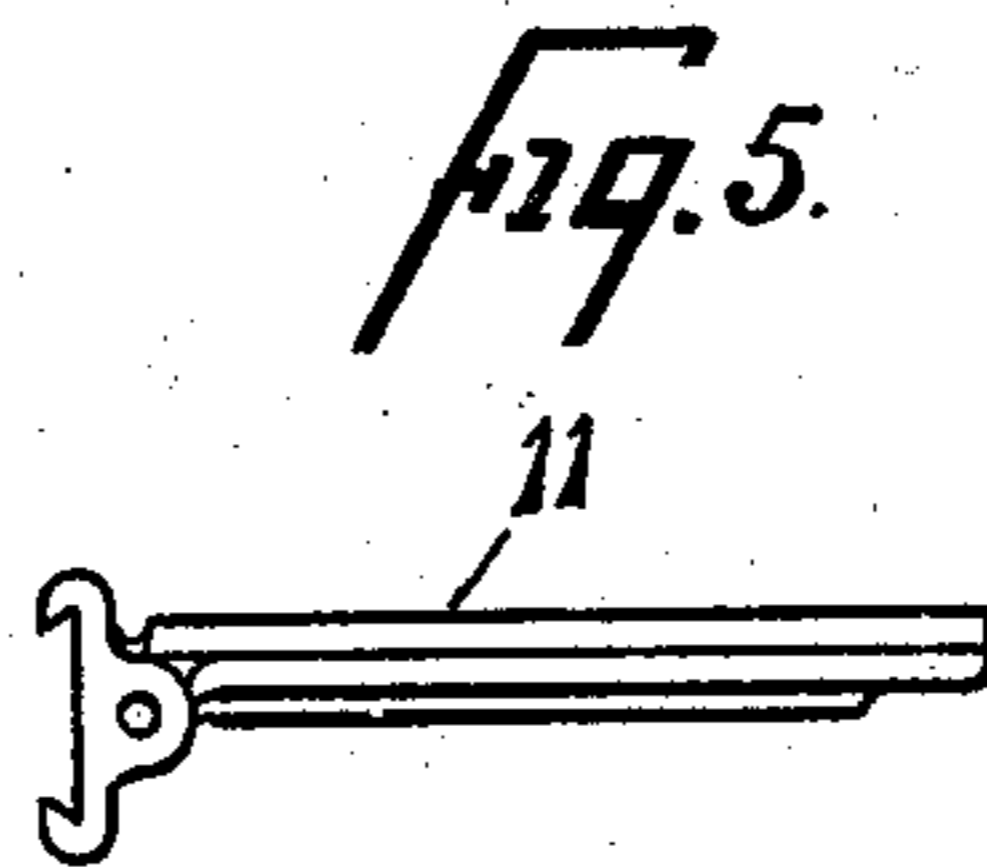
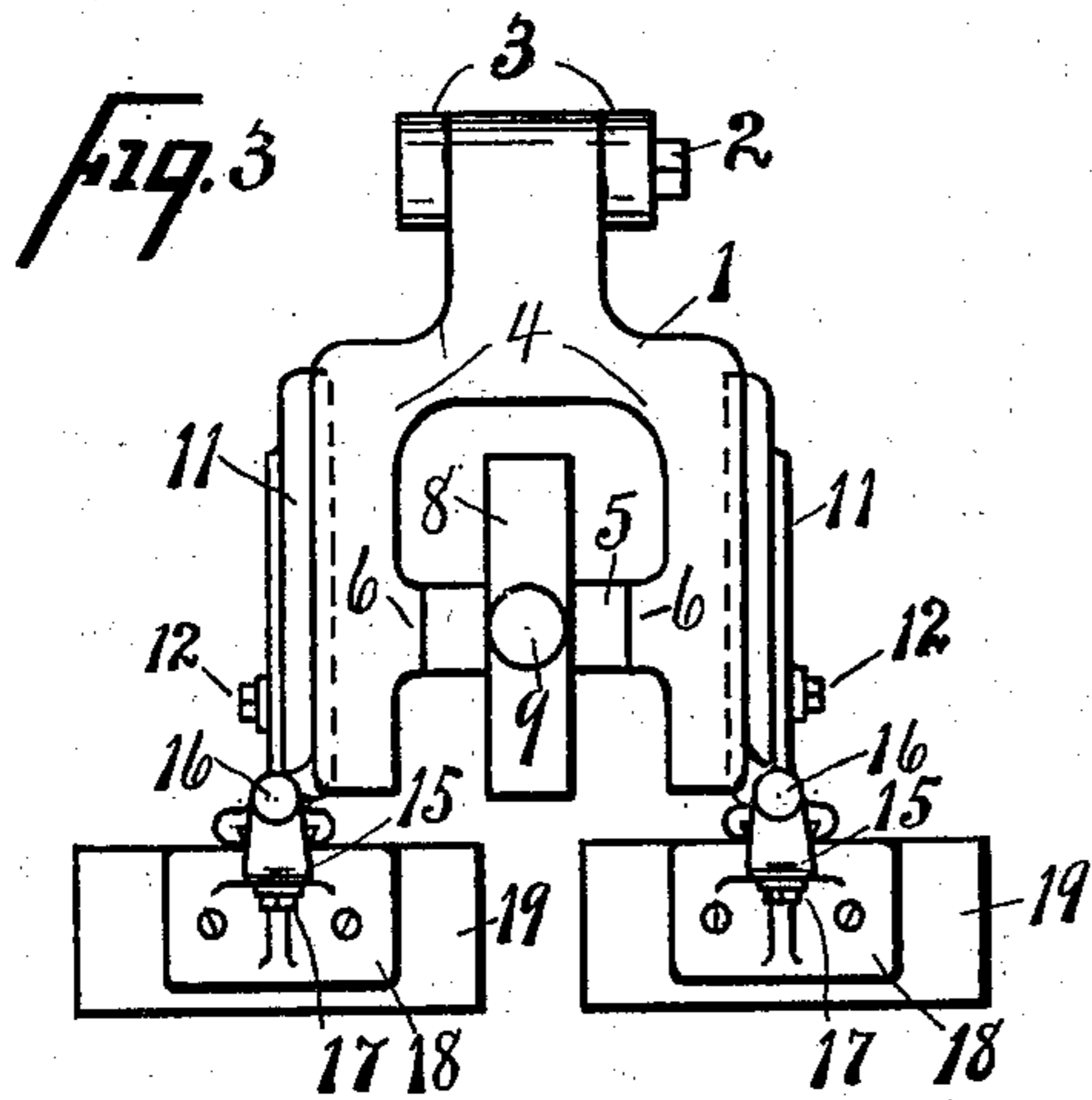
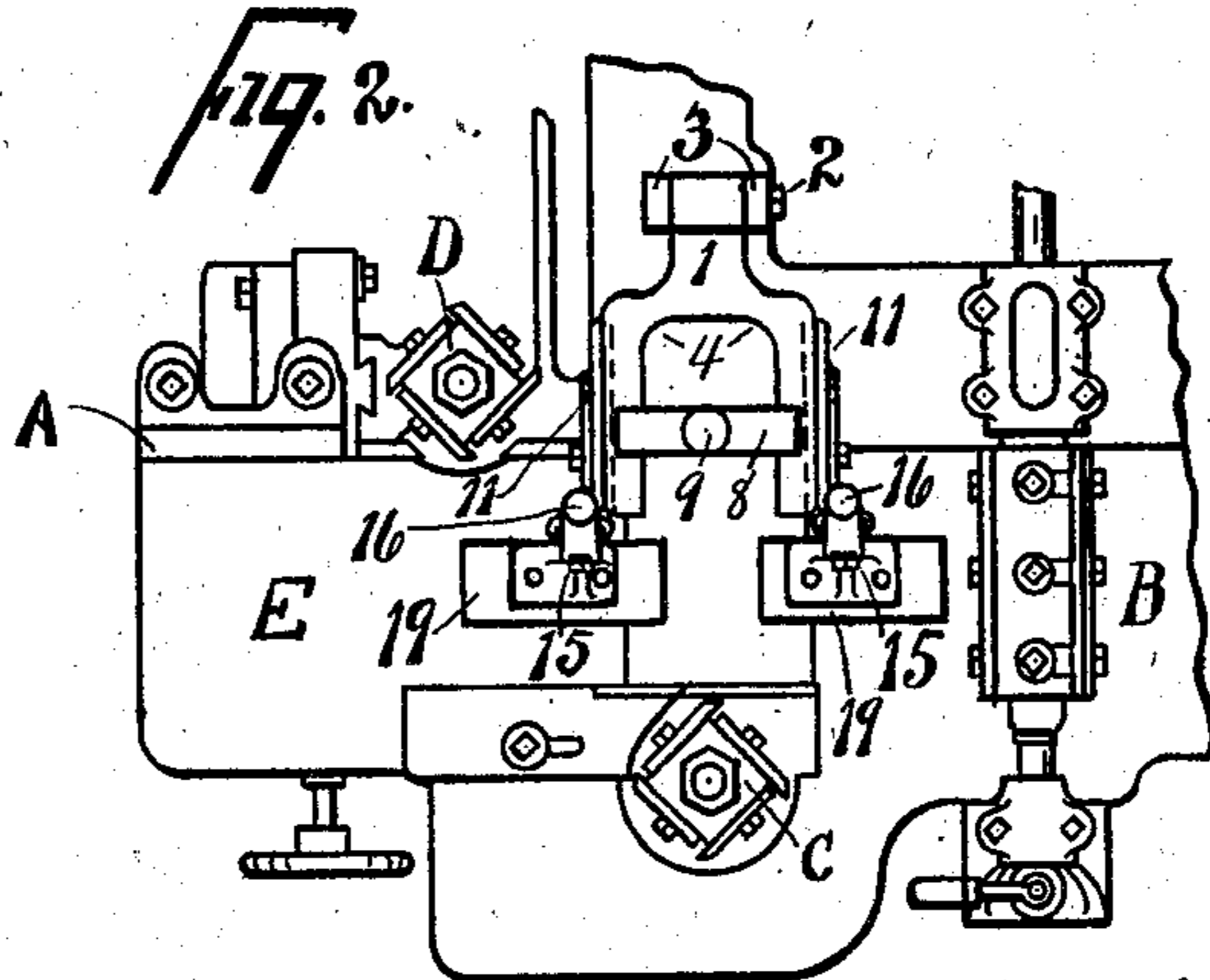
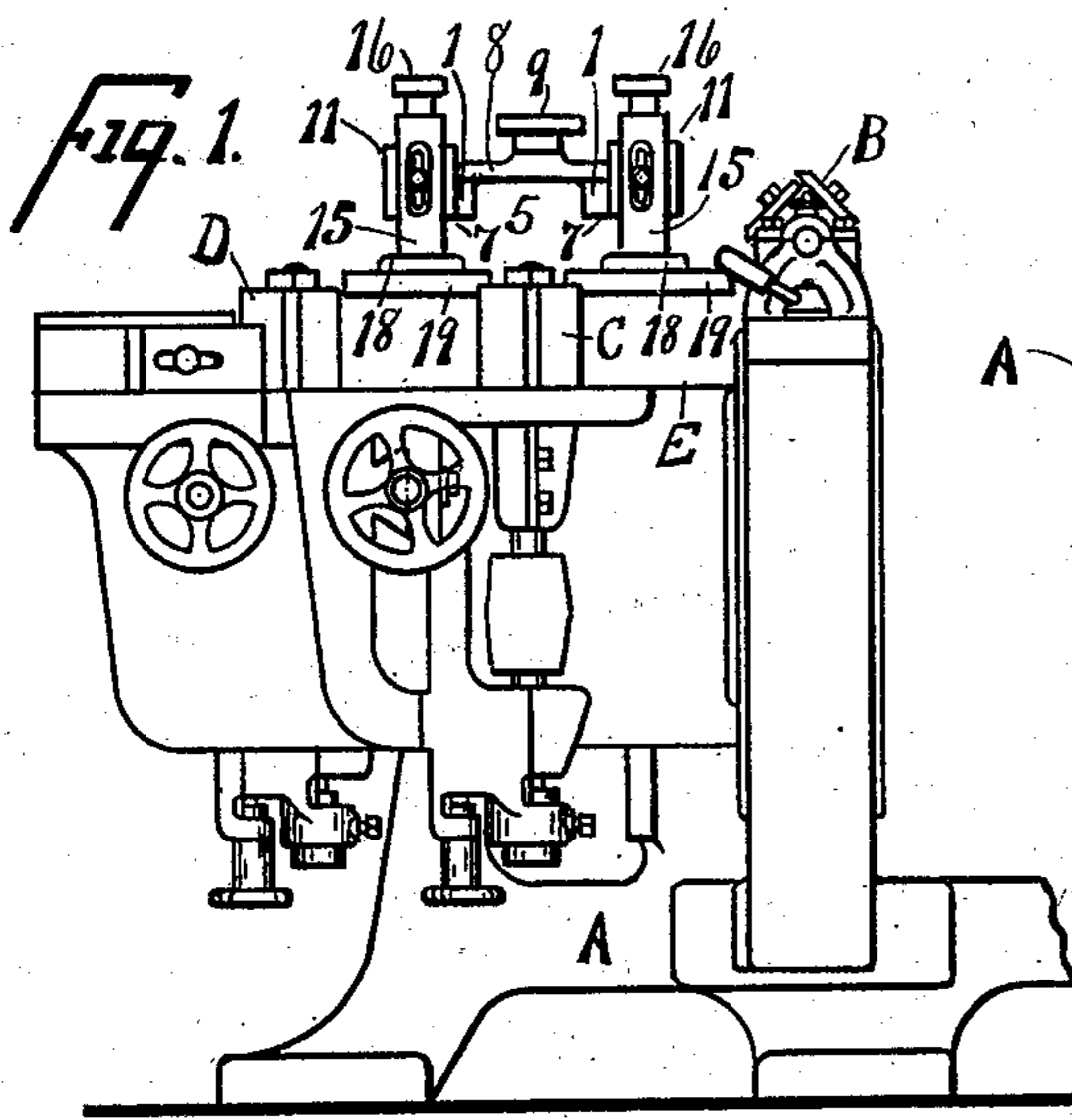
No. 702,039.

Patented June 10, 1902.

J. R. THOMAS.
HOLDDOWN DEVICE FOR WOODWORKING MACHINES.

(Application filed Dec. 23, 1901.)

(No Model.)



Witnesses
Herbert F. Barden
Ernest G. Simon

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UNITED STATES PATENT OFFICE.

JOHN R. THOMAS, OF CINCINNATI, OHIO, ASSIGNOR TO J. A. FAY & EGAN COMPANY, OF CINCINNATI, OHIO, A CORPORATION OF WEST VIRGINIA.

HOLDDOWN DEVICE FOR WOODWORKING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 702,039, dated June 10, 1902.

Original application filed May 29, 1901, Serial No. 62,413. Divided and this application filed December 23, 1901. Serial No. 87,021. (No model.)

To all whom it may concern:

Be it known that I, JOHN R. THOMAS, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Holddown Devices for Woodworking-Machines, of which the following is a specification.

This application is a division of my application for patent on improvement in molding-machines filed May 29, 1901, Serial No. 62,413.

It is the object of my invention to provide improved means for holding the stock to the table of the wood working-machine, especially between the side heads of a molding-machine or to rear of the upper cutter-head; to provide novel means for adjusting the pressure-feet sidewise of the table and with relation to the cutter-heads and to height above the table and for hanging and permitting the swinging of the same; and my invention consists in the parts and in the construction, arrangements, and combinations of parts hereinafter more fully described and claimed.

In the drawings, Figure 1 is an end view of my improved device shown in connection with so much of a molding-machine in side elevation as is necessary to illustrate my invention. Fig. 2 is a plan view of the same. Fig. 3 is an enlarged plan view of my improved device. Fig. 4 is a side elevation of the same, showing the swinging frame in raised position in dotted lines; and Fig. 5 is a plan view of the horizontal adjustable slide.

A is the frame of the machine, B an upper cutter-head, and C D side heads.

E represents the table or bed of the machine over which the stock is adapted to be fed by suitable means.

A swinging frame 1 is pivoted on a bolt 2, taking through lugs 3 on the frame. The swinging frame is preferably bifurcated, as shown at 4, the forks extending to either side of and fitting snugly against an extension 5 of the frame. The forks may have inwardly-projecting lugs 6, seating in seats 7 in the extension, with planed faces between the sides of the lugs and extension. A cross-piece 8 is secured to the extension by means of a

hand-wheel and screw 9 and is adapted to turn thereon and take snugly against the swinging frame for holding the latter rigidly in place when in normal lowered operative position. The swinging frame has adjustably secured thereto a pair of slides 11, adjustably held in position by means of bolts 12, taking through slots 13 in the slides and into the swinging frame. These slides are adjustable transversely of the bed of the machine and at their forward ends carry slides 15, which are given an up-and-down adjustment by means of bolts 16 and held securely in place by set-bolts 17. The slides 15 carry feet 18, to which blocks 19 are adapted to be secured, to the bottom of which latter pattern-pieces 20, shaped reversely to the contour of the molding being made at the time, may be secured. These pattern-pieces may be secured so as to connect the pressure-feet or be secured independently to either, and the pressure-feet may be adjusted to the same or different positions crosswise of the bed and also to the same or different height above the bed and, if desired, may with the swinging frame be swung entirely out of the way of the side heads and the upper cutter-head, as indicated in dotted lines in Fig. 4.

I claim—

1. In a woodworking-machine, a holddown device comprising in combination a swinging frame, swinging and solely supported from one side of the machine, with means for rigidly holding the swinging frame above the table of the machine, with a slide for the swinging frame, and means for adjusting the slide for extending a greater or less distance over the table of the machine from said side, and a second slide, with means for adjusting the latter for extending a greater or less height above the table, with means for permitting the swinging of the swinging frame and slides, substantially as described.

2. In a woodworking-machine, a holddown device comprising in combination a swinging frame overhanging the table of the machine from the side and supported solely from said side, with means at said side for rigidly securing the swinging frame in normal overhang-

ing position, slides for the swinging frame, with means for adjusting the slides on the swinging frame to overhang the table a greater or less distance, and second slides, with means
5 for adjusting the latter toward or away from the table, and means for permitting the swinging frame and slides to be swung upwardly away from the table, substantially as described.
10 3. In a woodworking-machine, a holddown device comprising in combination a bifurcated swinging frame, and a post extending between the forks, a clamp for securing the swinging frame rigidly in position, with a
15 pair of slides longitudinally and independently adjustable on the swinging frame, and a pair of secondary slides transversely independently adjustable on the latter, with means
20 for permitting the upward swinging of the frame with the slides thereon away from the

table of the machine, substantially as described.

4. In a woodworking-machine, the combination of a frame, a swinging frame swinging from one side of the frame and supported 25 solely from the side of the frame from which it swings, with a pair of slides, one adjustable for extending a greater or less distance over the table of the machine from the side from which the swinging frame swings, and 30 the other adjustable for greater or less height above said table, with said slides and means for adjusting same on said swinging frame.

In testimony whereof I have subscribed my name hereto in the presence of two subscribing witnesses. 35

JOHN R. THOMAS.

Witnesses:

PARKE S. JOHNSON,
WILLIAM H. McMILLAN.