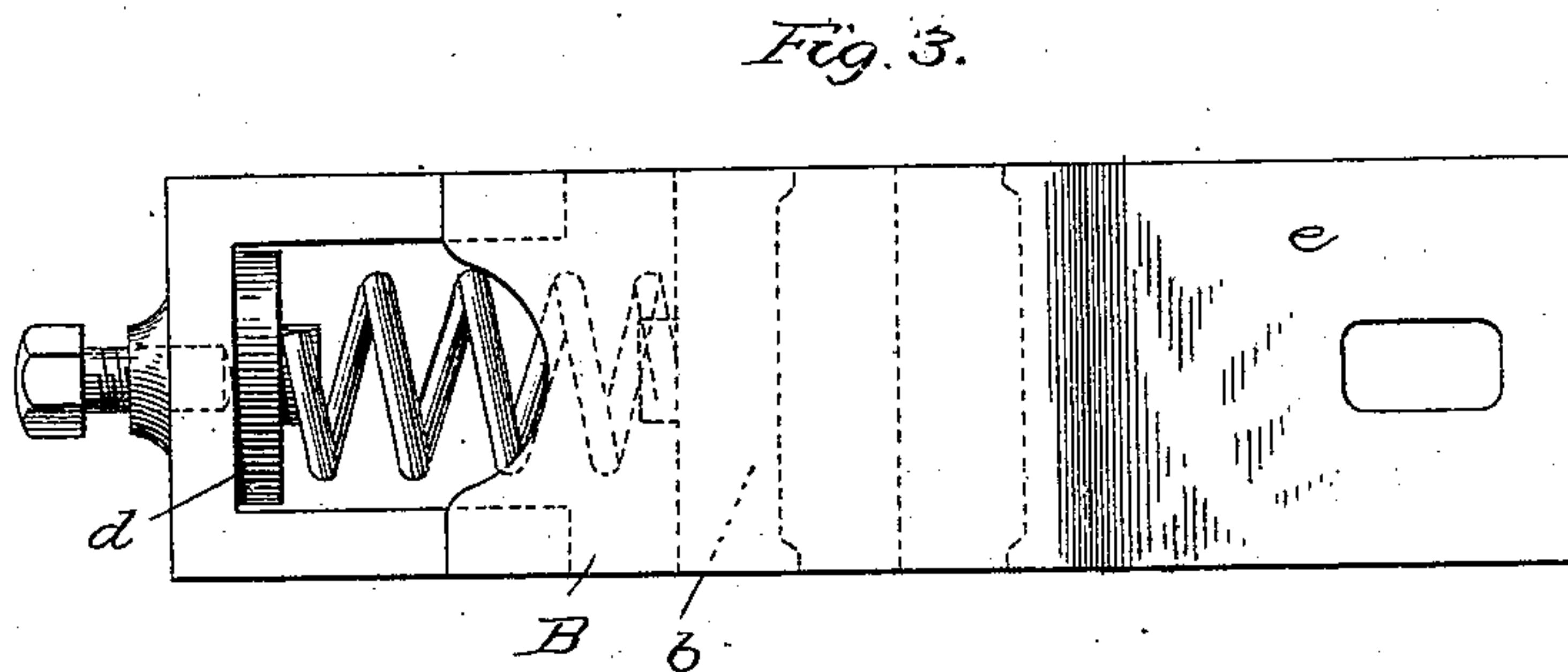
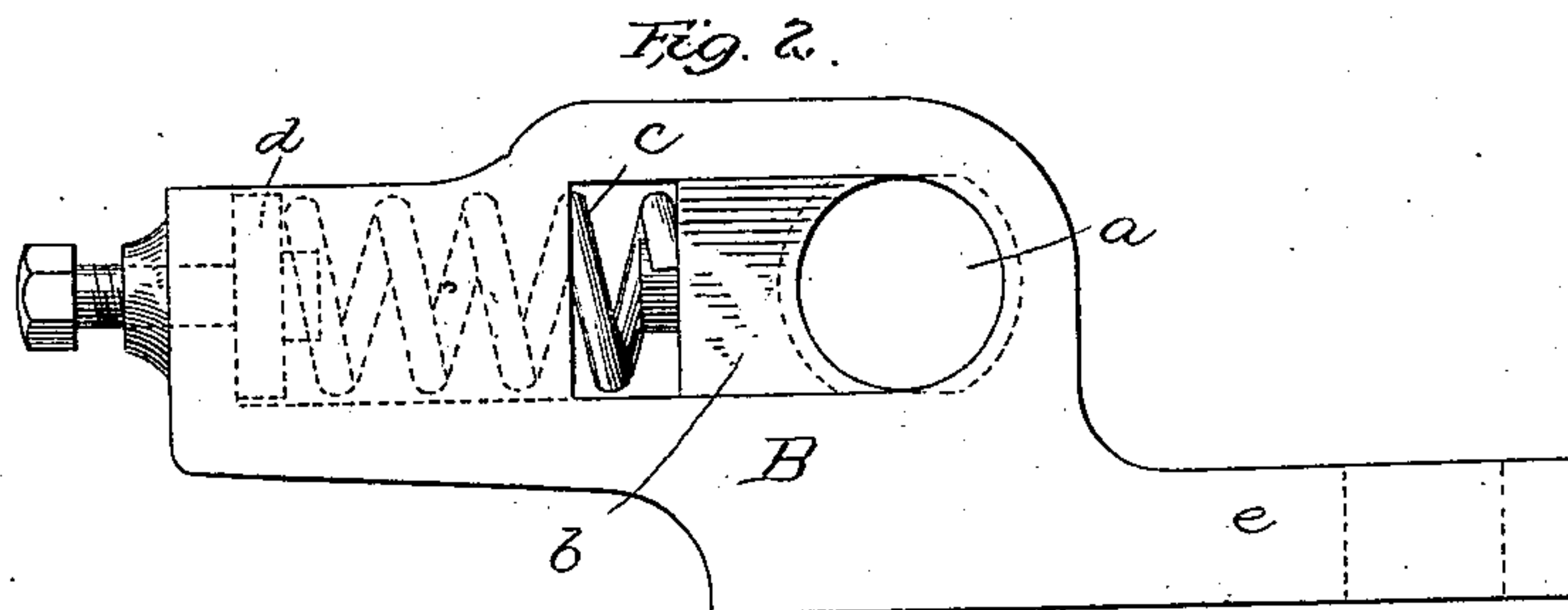
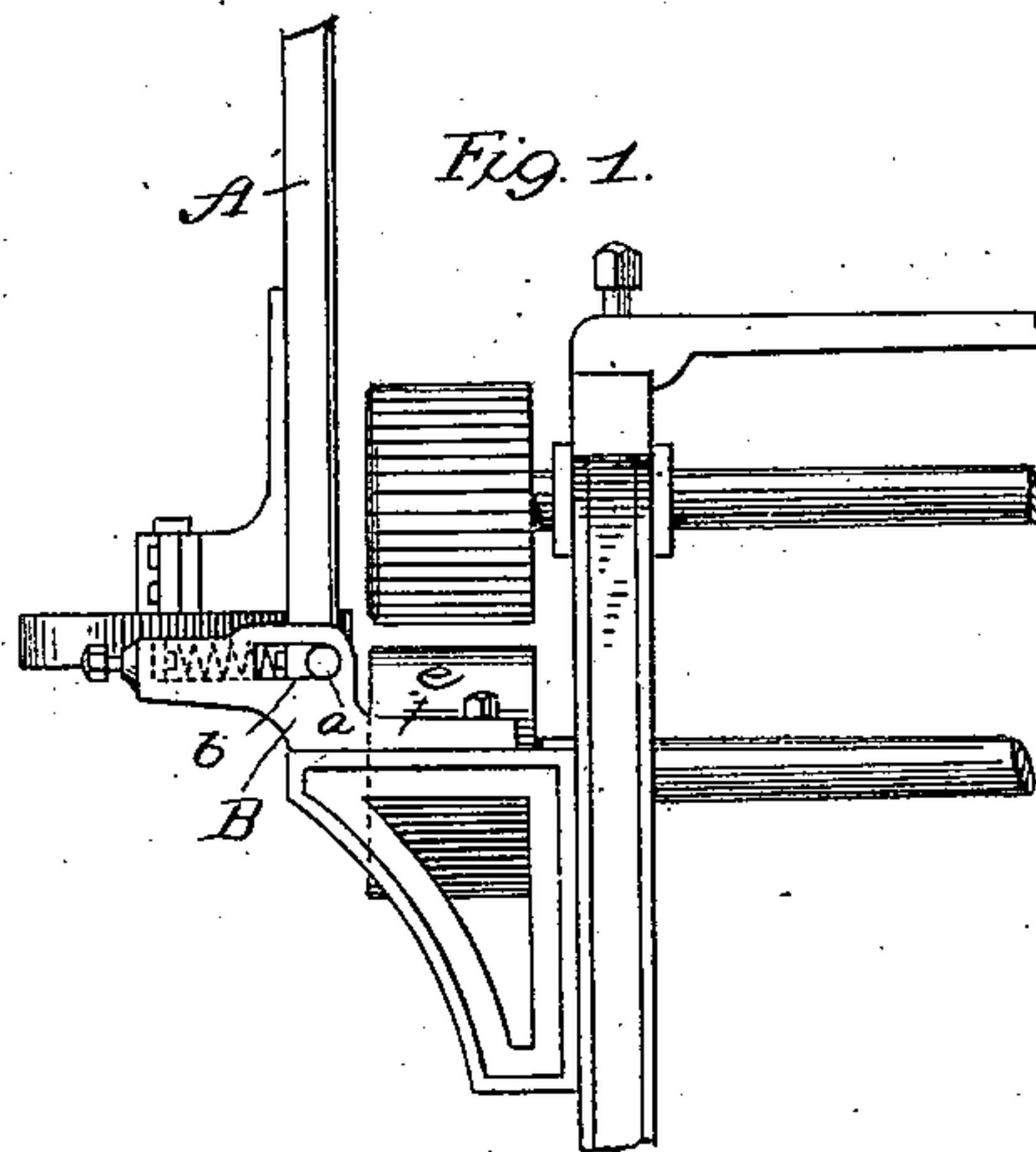


(No Model.)

A. WILBUR.
FLANGING MACHINE.

No. 308,297.

Patented Nov. 18, 1884.



Attest:
Haltermouldon
J. L. Middleton

Inventor
Alfred Wilbur
by Joyce Spear
Attys.

UNITED STATES PATENT OFFICE.

ALFRED WILBUR, OF ALLEGHENY, PENNSYLVANIA.

FLANGING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 308,297, dated November 18, 1884.

Application filed April 15, 1884. (No model.)

To all whom it may concern:

Be it known that I, ALFRED WILBUR, of Allegheny, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Flanging-Machines; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention is an improvement in flanging-machines of that class in which the edge of the plate or head is held between rollers, the rotation of which gives the plate or head movement, while the body of the plate is made gradually to vary in its angle to the flange or edge between the rollers.

The object of my invention is to properly form the angle or bend and to provide means for compensating for the difference in thickness in the metal plates operated upon.

In the accompanying drawings, Figure 1 represents the rolls in side elevation, with a portion of the table in vertical position. Fig. 2 shows one of the pivot-brackets in side elevation. Fig. 3 is a plan view of the same.

In the patent granted me on the 27th day of March, 1883, and numbered 274,872, the necessary adjustment of the flanging apparatus to adapt it by automatic movement to the different thickness of metal operated on was obtained by means of a movable upper roll, which yielded and slipped back on the flange as the table was raised if the plate happened to be of unusual thickness. It is desirable to have the rolls held rigidly and to secure the required adjustment. In the figures they are so represented, and their exposed ends are in the same vertical plane.

I hinge the table A upon or against yielding bearings. These bearings are shown at *b*, consisting of a suitably-formed block adapted to

rest against a spring, *c*, the block and spring being held in a suitable bracket, B. The bracket forms the rear side of the bearing for the journals *a* of the table. A loose washer, *d*, bears against the front of the spring, and a set-screw, working at the front end of the bracket, serves to adjust the tension to any desired degree. The bracket is secured to a frame outside the table by bolts through the part *e*.

As shown in Fig. 1, I pivot the table so that the edge next the rolls shall be in line with the upper surface of the lower roll and at a distance therefrom equal to the thickness of the thinnest iron worked in the machine. The upper corner next the roll remains therefore always on the same line and at the angle of the bent metal plate. When the table is in a vertical position, it leaves a space between its surface and the ends of the rolls required by the plate, the springs yielding according to the thickness of the plate.

I prefer to use this improvement in connection with the improved features shown in my aforesaid patent, excepting the adjustable upper roll, which is not required when my present improvement is used.

I claim as my invention—

In a machine for flanging metal plates, and in combination with the rolls thereof, the pivoted table mounted on yielding bearings, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALFRED WILBUR.

Witnesses:

CLARENCE BURLEIGH,
J. R. HARBISON.