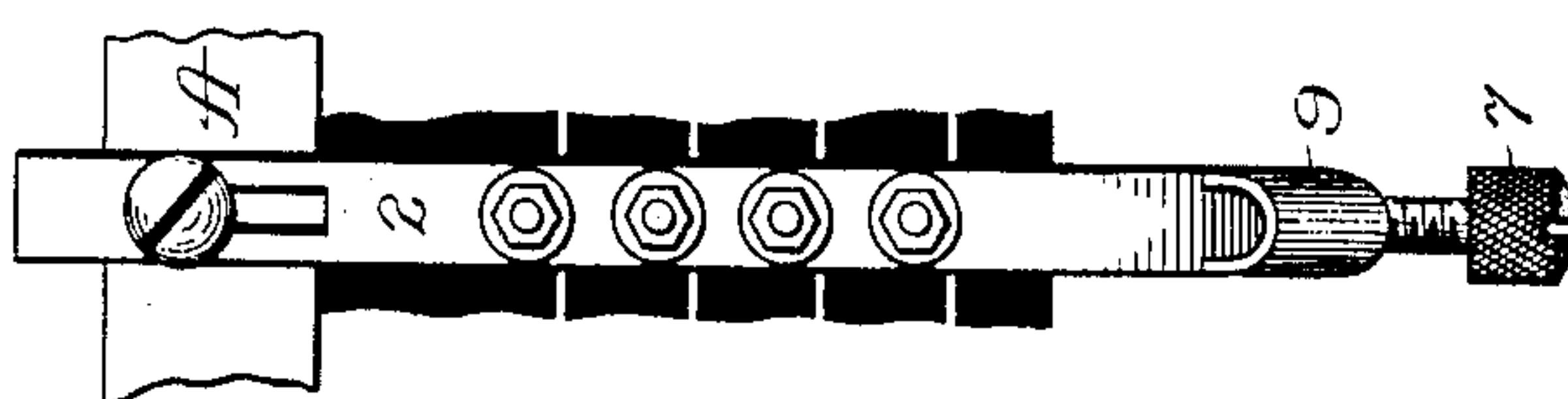
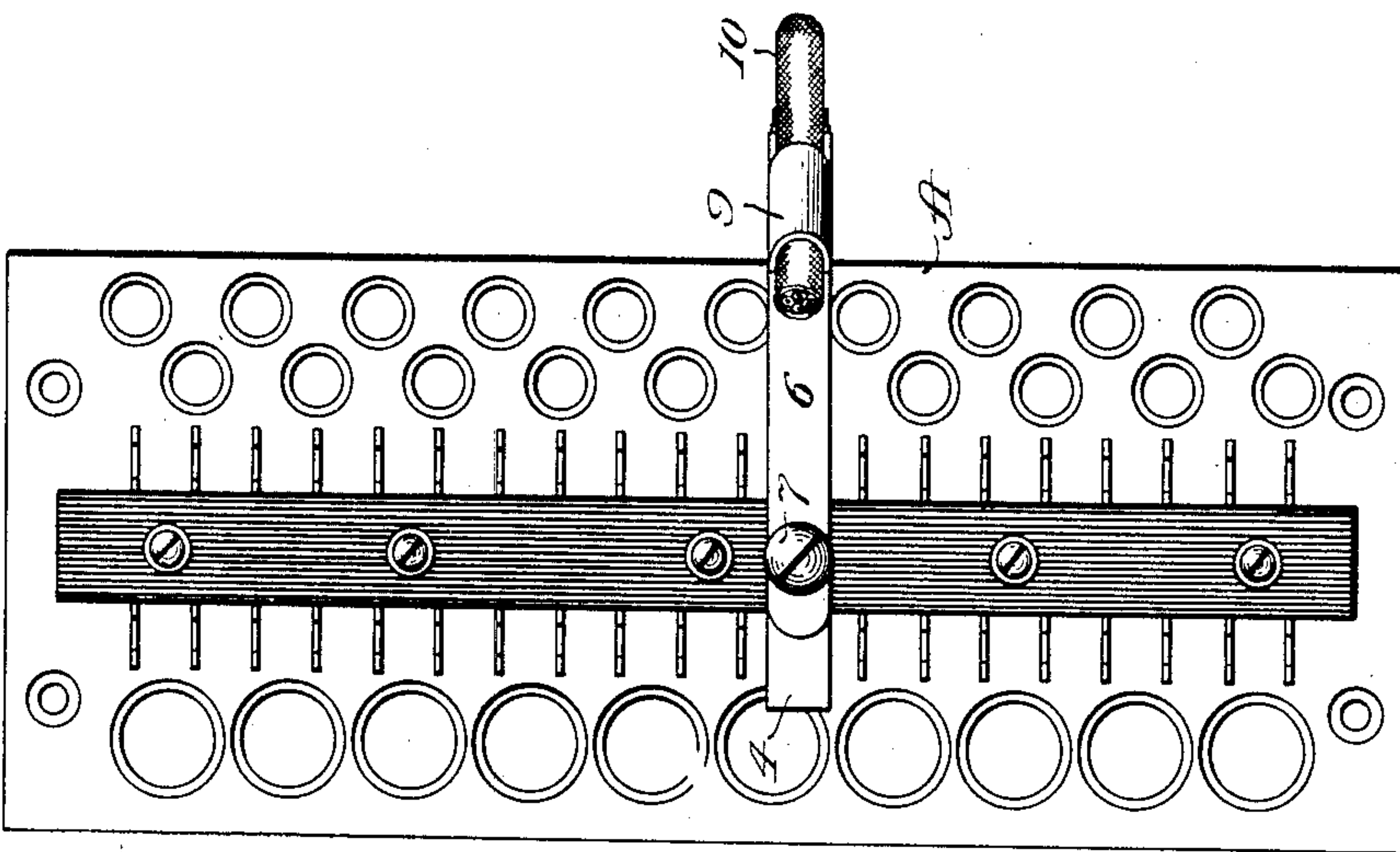
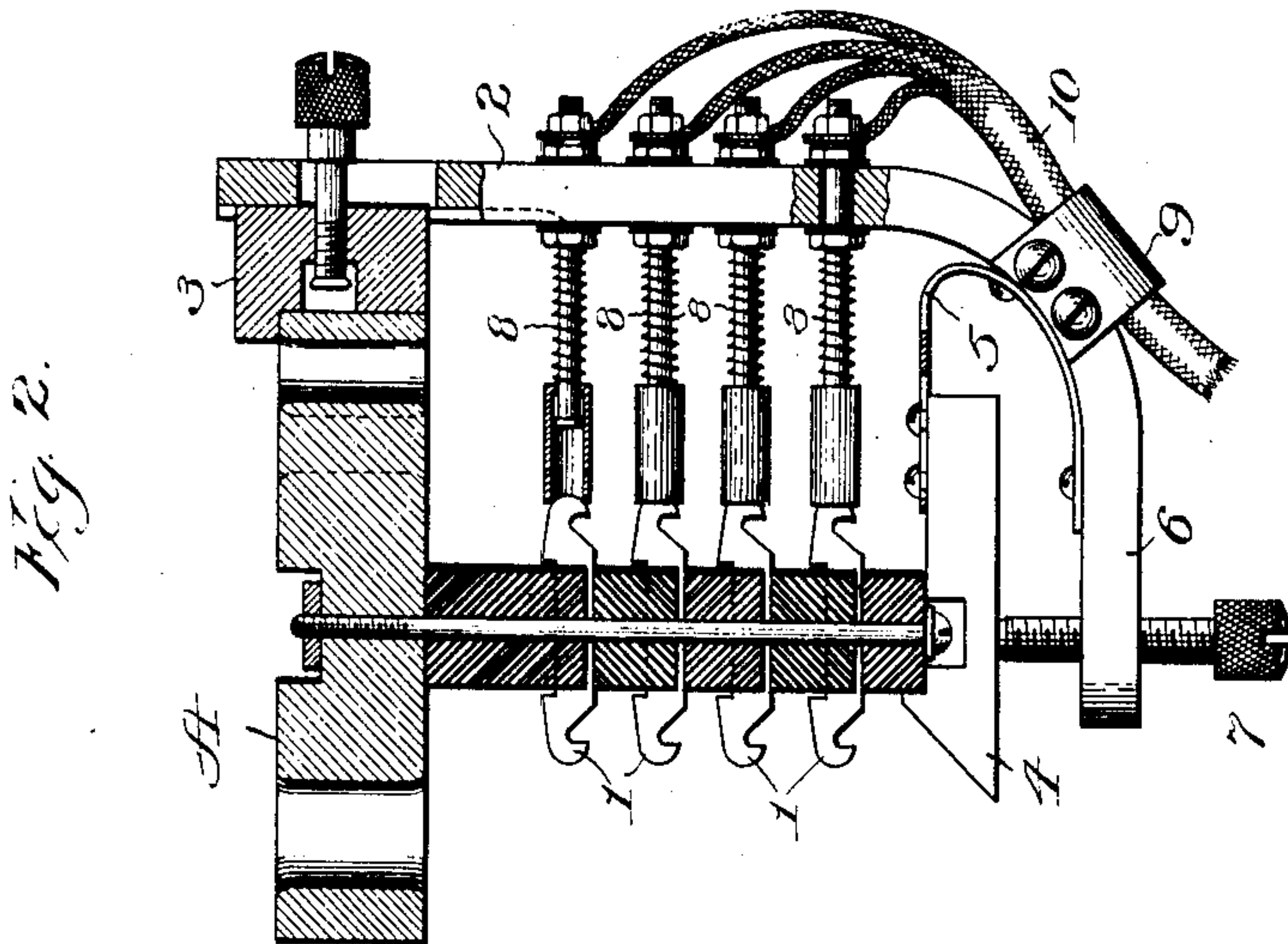


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TEST DEVICE.  
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966,728.

Patented Aug. 9, 1910.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

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## TEST DEVICE.

966,728.

Specification of Letters Patent.

Patented Aug. 9, 1910.

Application filed May 31, 1907. Serial No. 376,685.

*To all whom it may concern:*

Be it known that I, ARTHUR H. ADAMS, citizen of the United States, residing at Antwerp, in the Kingdom of Belgium, have invented a certain new and useful Improvement in Test Devices, of which the following is a full, clear, concise, and exact description.

My invention relates to a test device for temporarily connecting a conducting cord to some exposed part of a telephone line. Its object is to provide simple testing means which can be quickly and readily held in place or removed, which will be reliable in use, and by which a plurality of conductors are simultaneously connected with a plurality of exposed parts of the line.

It is customary to provide in the terminal room of a telephone exchange some sort of connecting device, carried on the end of a flexible conducting cord, for temporarily connecting said cords to some exposed part of the line, the other end of the cord being connected with conductors extending, for example, to an observing service operator's desk. By this means, when the observing service operator wishes to test the service on a line, he can connect the conductor leading to his equipment to said line. My invention is designed to provide convenient means for temporarily connecting conductors used for such testing, or for any other desired purpose, to a telephone line or lines.

My invention contemplates a clamping frame provided with a plurality of contacts adapted, when said frame is clamped in place, to connect with corresponding terminals of a telephone line, each clamp terminal being adapted to be connected to a flexible cord forming part of a conductor which is to be connected with the line.

My invention may be more readily understood by reference to the accompanying drawing, in which—

Figure 1 is a front elevation of a terminal block having the clamp of my invention attached thereto; Fig. 2 is a horizontal section through a terminal block showing the clamp partly in section and partly in plan; and Fig. 3 is a fragmentary view, showing the clamp in side elevation.

Like parts are designated by similar characters of reference throughout the several views.

The test device of my invention is preferably in the form of a clamp. In the drawings is shown a terminal block A, for the purpose of illustrating the manner in which such clamp may be secured in position, said block being of a well-known type with which the vertical side of the intermediate distributing frame is equipped. The four punchings 1, in each of the twenty rows shown, constitute terminals to which the tip, ring, relay and line lamp conductors, respectively, of a given line are connected.

The test clamp may comprise a frame or plate 2, carrying on one end an adjustable jaw 3 adapted to engage the back of the terminal block A. On the opposite end of the block 2 is mounted a jaw or catch 4 adapted to engage the outer rubber strip of the terminal block, as shown in Fig. 2. The jaw 4 is preferably mounted on a spring 5 secured to the plate 2, thus producing a jaw which is in the nature of a spring catch. I also preferably provide said plate 2 with an L-shaped extension 6 projecting parallel with the catch 4. A screw 7 carried by the extension 6 is adapted to bear on said catch and to clamp the device as a whole more securely to the block. The jaw 3 is made slidably adjustable in order that the clamp may be applied to terminal blocks of various sizes. Said jaw has a stepped face so as to engage two of the faces of the back plate of the block. The jaw or catch 4 is likewise made slidably adjustable, for similar reasons.

Mounted upon the plate 2, and insulated therefrom, are spring-pressed, plunger contacts 8. The ends of these contacts are thus securely held into engagement with the ends of the corresponding terminal punchings 1.

A loop 9 may be provided on the device through which the connecting cord 10 is threaded.

For the sake of simplicity, I have shown all the terminal punchings 1 as of the same length, and a clamp desired to test only a single row of such punchings. Obviously it would require no departure from my invention to duplicate the parts so as to simultaneously test more than a single row or to adapt said clamp to terminals of varying lengths.

Having thus described my invention, I claim:—

1. A test clamp comprising a plate, clamp-



ing jaws, and a plurality of spring-pressed plunger contacts mounted on said plate.

2. A device for temporarily connecting conductors to a terminal block of a telephone distributing frame, comprising a plate, and a plurality of spring-pressed plunger contacts mounted thereon and arranged to engage corresponding terminals of said terminal block, when said device is held in an operative position with relation thereto.

3. A device for connecting conductors to a terminal block of a telephone distributing frame, comprising a plate, means for detachably securing said plate to said frame, and a plurality of contacts arranged to engage corresponding terminals of said terminal block.

4. A device for connecting conductors to a terminal block of a telephone distributing frame, comprising a plate, clamping jaws carried thereby and adapted to engage the back frame and front strip, respectively, of said terminal block, and a plurality of contacts mounted on said plate and arranged to engage corresponding terminals of said terminal block.

5. A device for connecting conductors to a terminal block of a telephone distributing frame, comprising a plate, a clamping jaw and a spring catch carried thereby and adapted to engage the back frame and front strip, respectively, of said terminal block, and a plurality of contacts mounted on said

plate and arranged to engage corresponding terminals of said terminal block.

6. A device for connecting conductors to a terminal block of a telephone distributing frame, comprising a plate, clamping jaws carried thereby and adapted to engage the back frame and front strip, respectively, of said terminal block, an angular extension of said plate, a screw carried by said extension and arranged to bear on said catch to hold the same in place, and a plurality of contacts mounted on said plate and arranged to engage corresponding terminals of said terminal block.

7. A device for connecting conductors to a terminal block of a telephone distributing frame, comprising a plate, clamping jaws carried thereby and adapted to engage the back frame and front strip, respectively, of said terminal block, an angular extension of said plate, a screw carried by said extension and arranged to bear on said catch to hold the same in place, and a plurality of spring-pressed plunger contacts mounted on said plate and arranged to engage corresponding terminals of said terminal block.

In witness whereof, I hereunto subscribe my name this fourteenth day of May, A. D. 1907.

ARTHUR H. ADAMS.

Witnesses:

H. TUCK SHERMAN,  
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