

No. 855,978.

PATENTED JUNE 4, 1907.

V. H. RAPKE.
HORN SUPPORT.

APPLICATION FILED APR. 12, 1906.

2 SHEETS—SHEET 1.

Fig. 1.

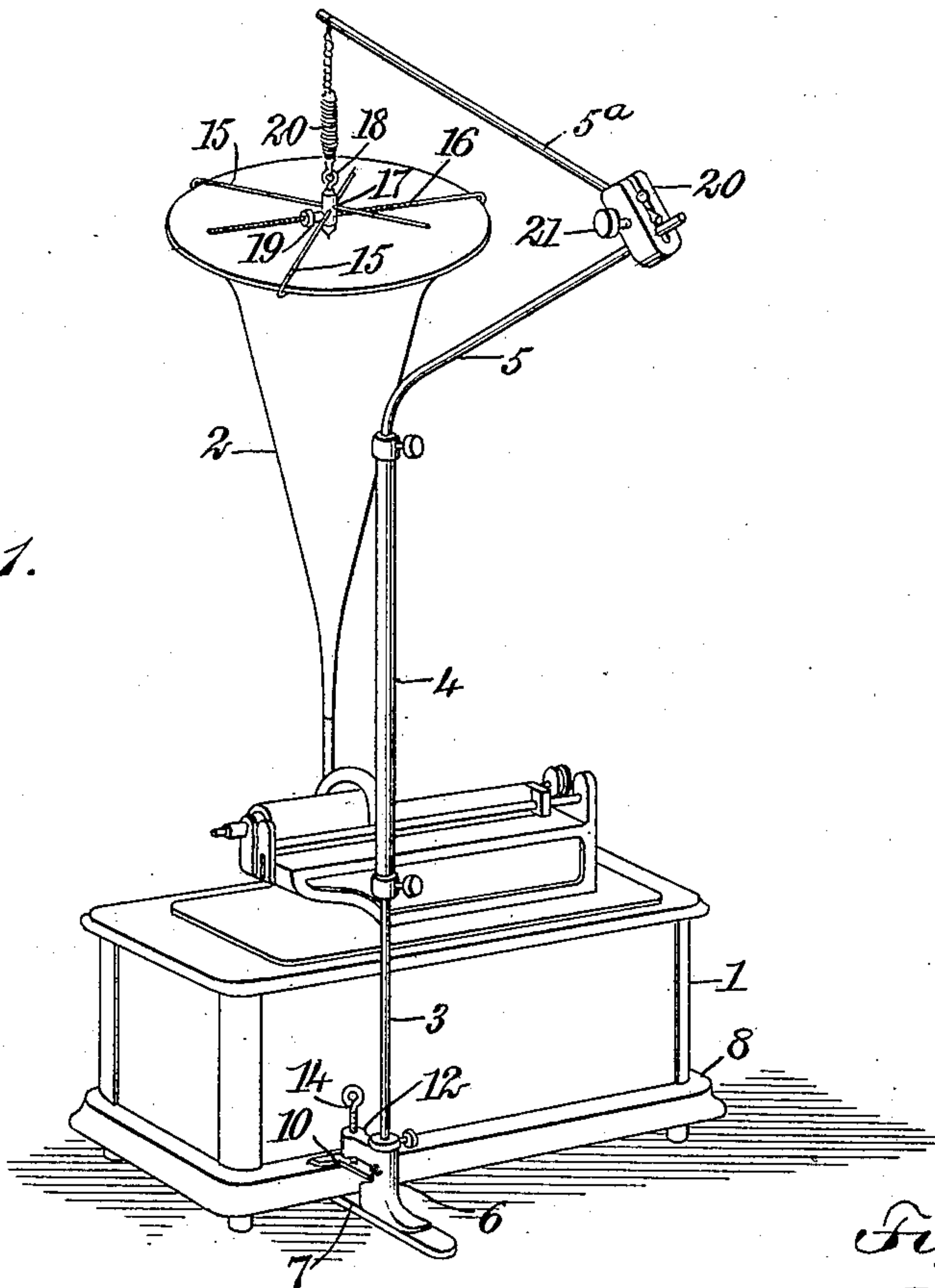


Fig. 2.

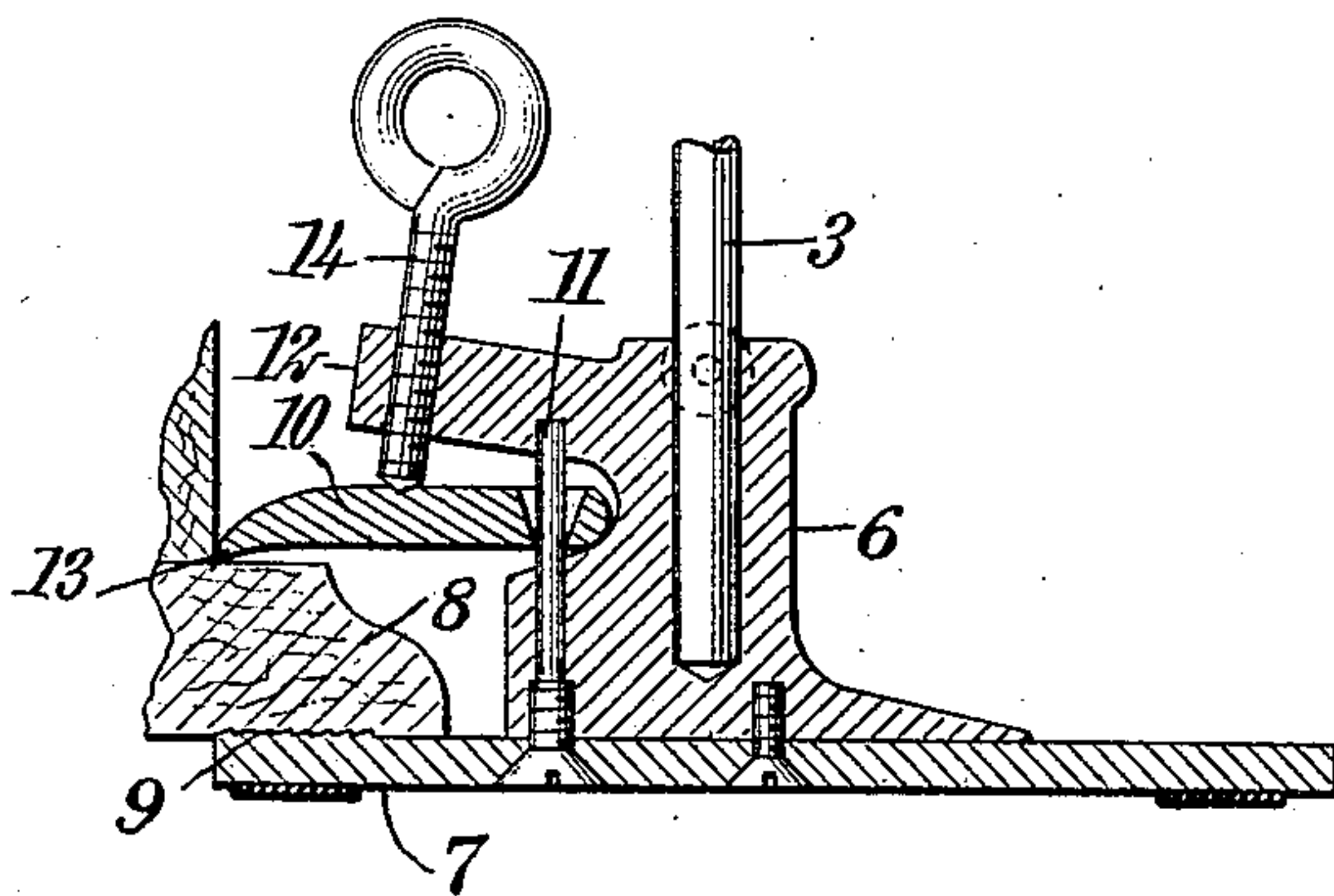
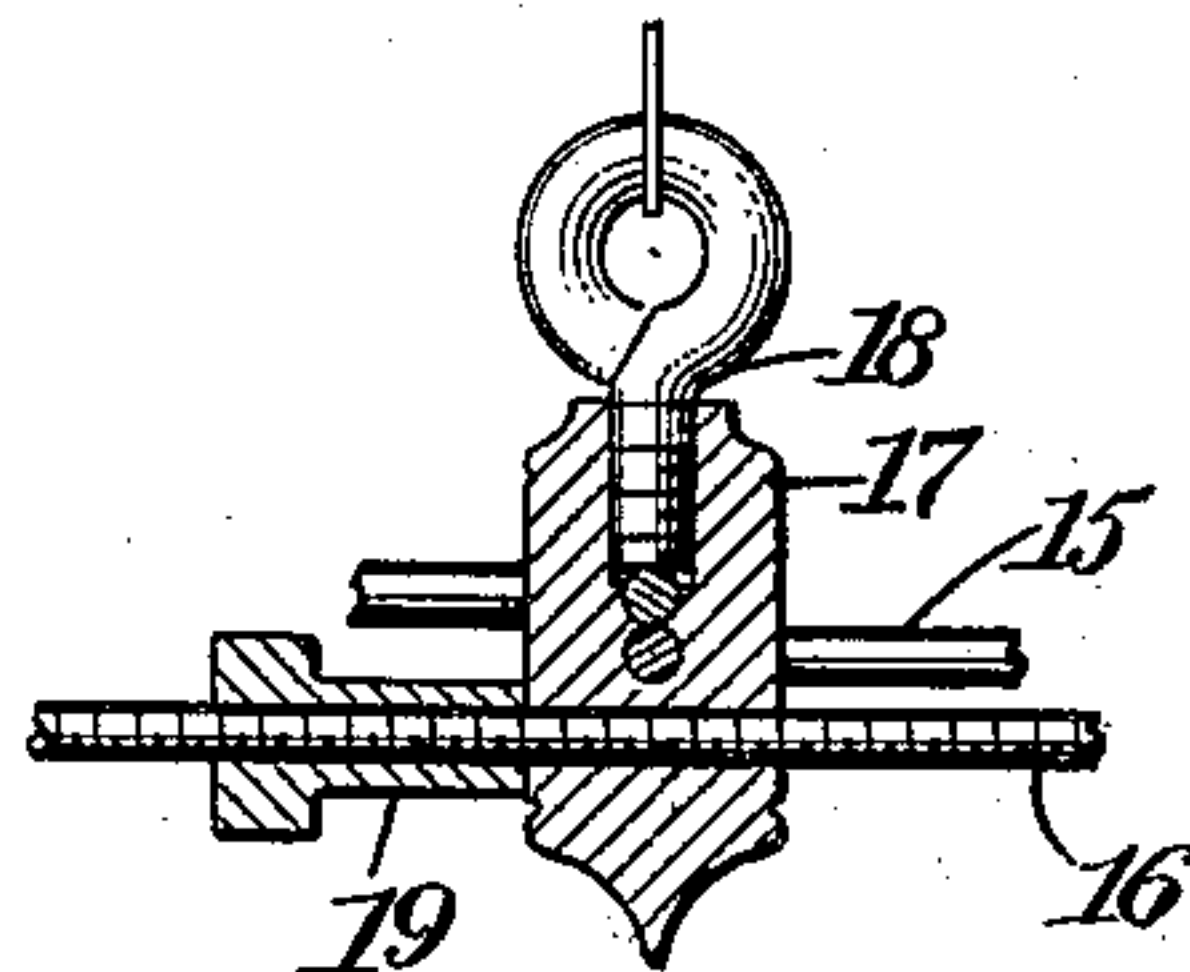


Fig. 3.



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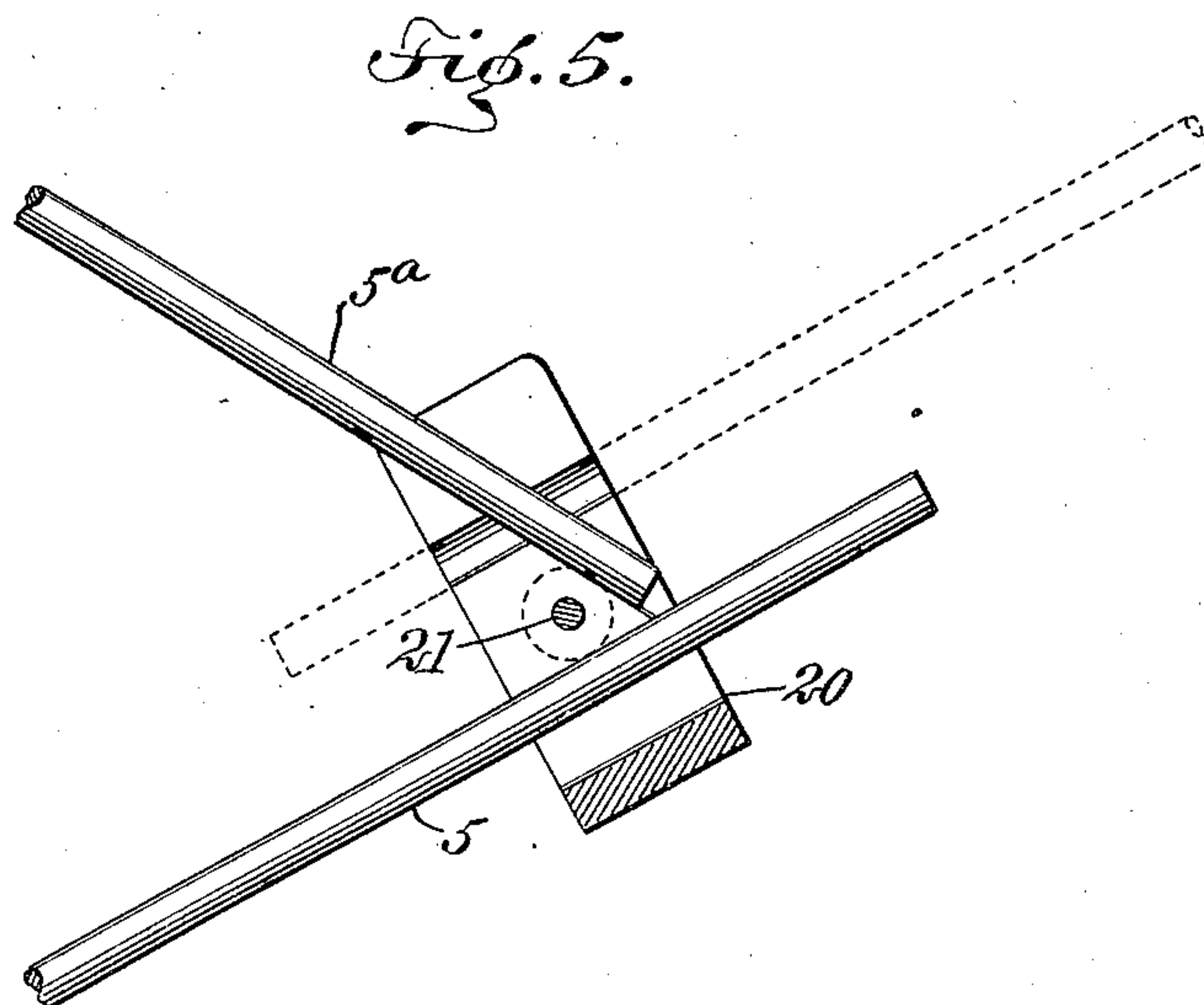
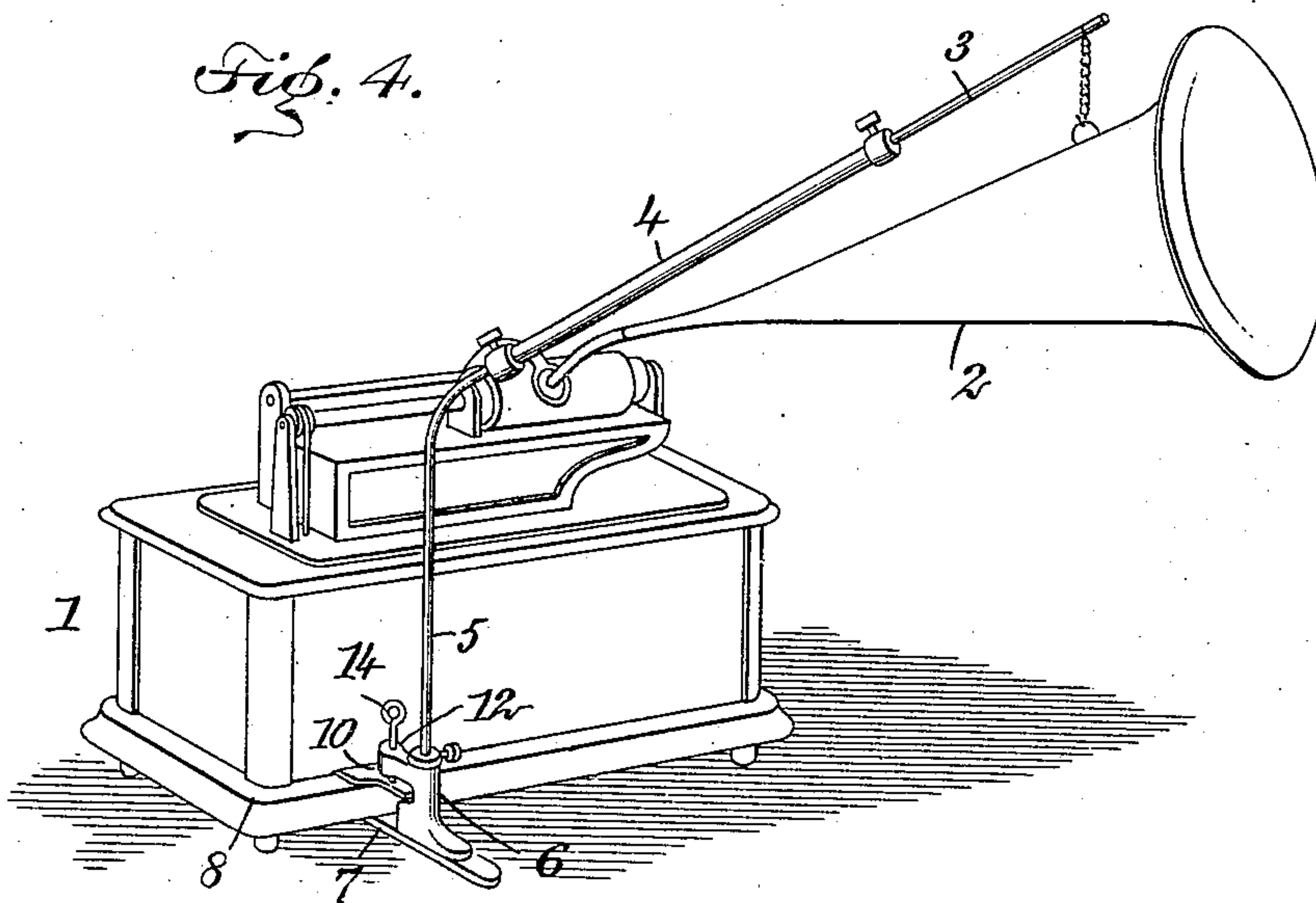
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WITNESSES

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VICTOR H. RAPKE, OF NEW YORK, N. Y.

HORN-SUPPORT.

No. 855,978.

Specification of Letters Patent.

Patented June 4, 1907.

Application filed April 12, 1906. Serial No. 311,281.

To all whom it may concern:

Be it known that I, VICTOR H. RAPKE, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Horn-Support, of which the following is a full, clear, and exact description.

This invention relates particularly to supporting devices for phonograph horns, the object being to provide in the construction of the support, a novel and simple clamping device that may be readily engaged with a molding of the machine casing, and further, to provide a supporting rod so constructed that the horn may be supported vertically or horizontally, or, in other words, a universal or interchangeable supporting rod.

Other objects of the invention will appear in the general description.

I will describe a horn support embodying my invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view showing a horn supporting device embodying my invention; Fig. 2 is a sectional view of the clamping member; Fig. 3 is a sectional detail showing the adjusting means for the horn engaging spider; Fig. 4 is a perspective view showing the rod as arranged for supporting the horn in substantially horizontal position; and Fig. 5 is a sectional detail indicating a clamping device that may be used.

Referring to Sheet 1 of the drawings, 1 designates the casing of a phonograph, and 2 the amplifying horn, the said horn as indicated in Fig. 1, being supported in vertical position by means of a rod preferably made in sections so as to be readily separated for packing and storage. These sections are indicated at 3, 4, 5 and 5^a, the section 4 being tubular for receiving the ends of the sections 3 and 5 which are clamped by thumb-screws indicated in said Fig. 1.

The clamping device for the rod consists of a socket member 6 mounted on a plate 7 which forms the lower jaw, and designed to engage the under side of the molding 8 of the machine casing; and this plate or lower jaw 7 is provided with teeth 9 for engaging into the wood of the casing or molding.

Having swinging connection with the socket member 6 is the upper jaw 10, this jaw being mounted on a pivot or rod 11 extended through the plate 7, through a portion of the socket member and into the forward projection 12 of the socket member. The opening in the upper jaw 10 through which a rod or pin 11 passes is gradually enlarged from its lower end upward, thus permitting the free up and down movement of said upper jaw. The upper jaw 10 is provided with a rib 13 for engaging with and pressing into the upper portion of the molding 8 and it is held in engagement with the molding by means of a hand-screw 14, engaging in a tapped opening in the projection 12 and impinging on said upper jaw, as clearly indicated in Fig. 2. The jaw 10 not only has vertical swinging connection with the rod 11, but it may be swung laterally or to one side of the socket member 6 for convenience in packing or storing.

Engaging with the end of the horn is a spider consisting of rods 15 and 16. The rods 15 are adjustable through a block 17 and are held as adjusted, by a clamping screw 18; the several rods at their outer ends have hook portions for engaging over the edge of the horn. The rod 16 also passes through the block 17 and this rod 16 is screw-threaded, and engaging with the thread is an adjusting nut 19.

In the operation, the hook portions of the rods 15 are to be engaged over the edge of the horn and then the rod 16 is to be engaged with the edge of the horn and held in such engagement by means of the nut 19. As shown in Fig. 1, the spider has spring connection 20 with the supporting rod.

In Fig. 4 the horn is shown as supported in substantially horizontal position; in this case, all of the supporting rod is used excepting the section 5^a, and further, when used for this horizontal position the longer member of the curved section 5 is inserted in the socket 6 and the section 3 is inserted in the outer end of the tubular member or section 4. It will therefore be seen that by bending the section 5, a practically universal supporting rod is provided.

For upright support I employ a suitable device for connecting the section 5 with the section 5^a; as here indicated, this device consists of a two-jaw clamp 20, which jaws are moved together by a thumb-screw 21; the jaws are provided with a plurality of chan-

nels into which sections of the rod may engage. Certain of the channels are so arranged that the section 5^a may extend in the direction indicated in Figs. 1 and 5, or reversed as indicated by the dotted lines in Fig. 5.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:—

10 1. The combination with a phonograph horn supporting rod, of a socket member for receiving the lower end of said rod, a lower fixed jaw on the socket member, an upper jaw having swinging relation to the socket
15 member and provided with a rib at its free end and means for swinging said upper jaw to clamping position.

20 2. A phonograph horn support, comprising a horn supporting rod, a socket member for receiving the lower end of said rod, a lower jaw extended from said socket member, the said socket member having a forward projection at its upper end, provided with a

tapped opening, an upper jaw having vertical and lateral swinging relation to said socket member, and a clamping screw engaging in said tapped opening and impinging upon said upper jaw. 25

3. In a phonograph horn support, the combination with a supporting rod of a spider 30 comprising a block supported from said rod, a plurality of rods adjustably mounted in the block, a clamping screw for said rods, a screw threaded rod also adjustably mounted in the block, and a nut for engagement with 35 the screw threaded rod, and bearing against the block, each of the several spider rods having a hook-shaped end.

In testimony whereof I have signed my name to this specification in the presence of 40 two subscribing witnesses.

VICTOR H. RAPKE.

Witnesses:

JNO. M. RITTER,
C. R. FERGUSON.