(No Model.)

R. B. POOLE.

CLAMP.

No. 333,667. Patented Jan. 5, 1886.

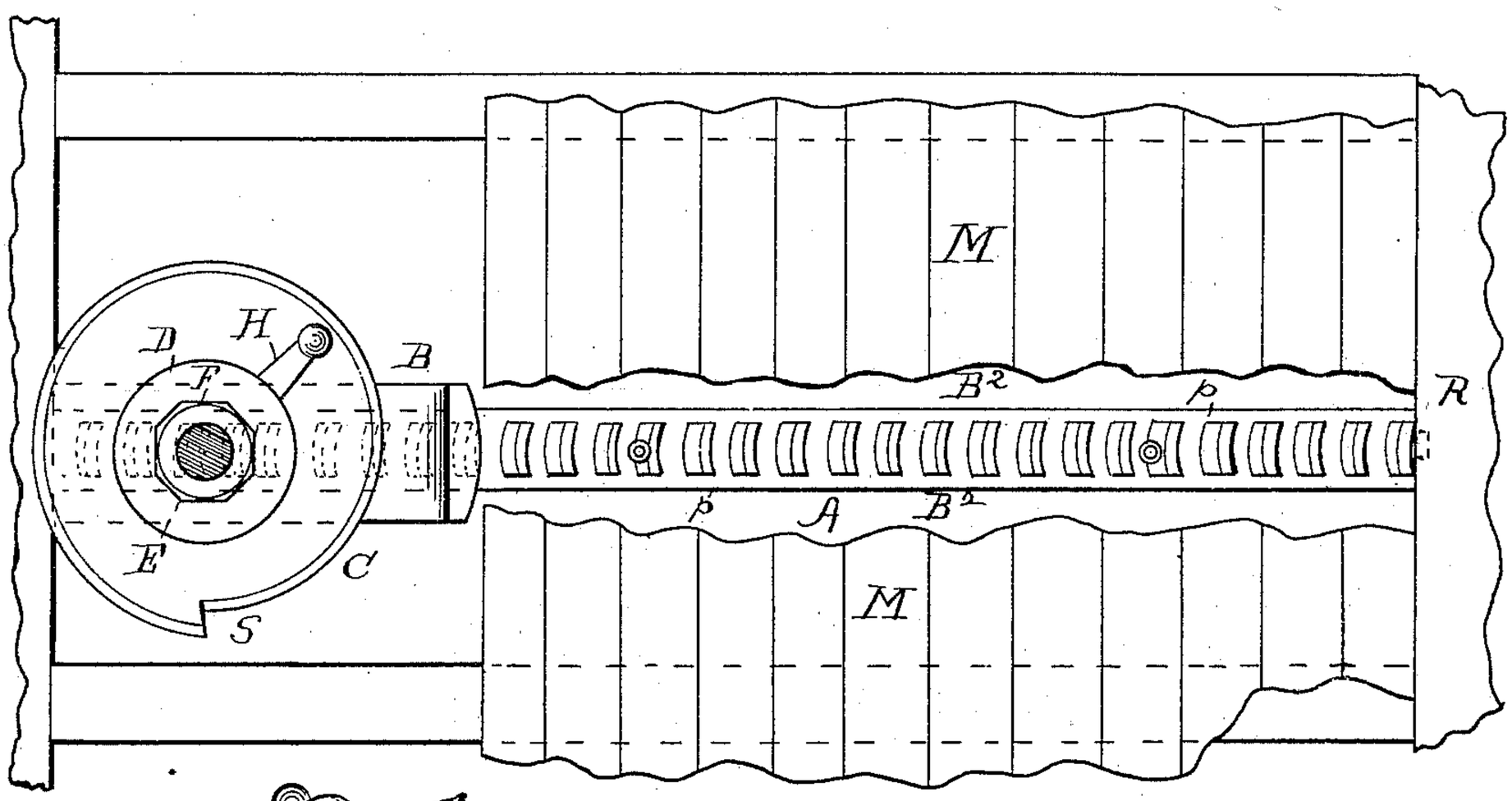
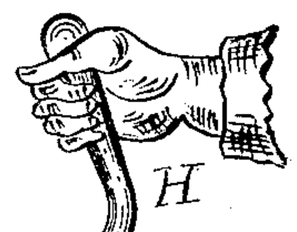


FIG. 1.



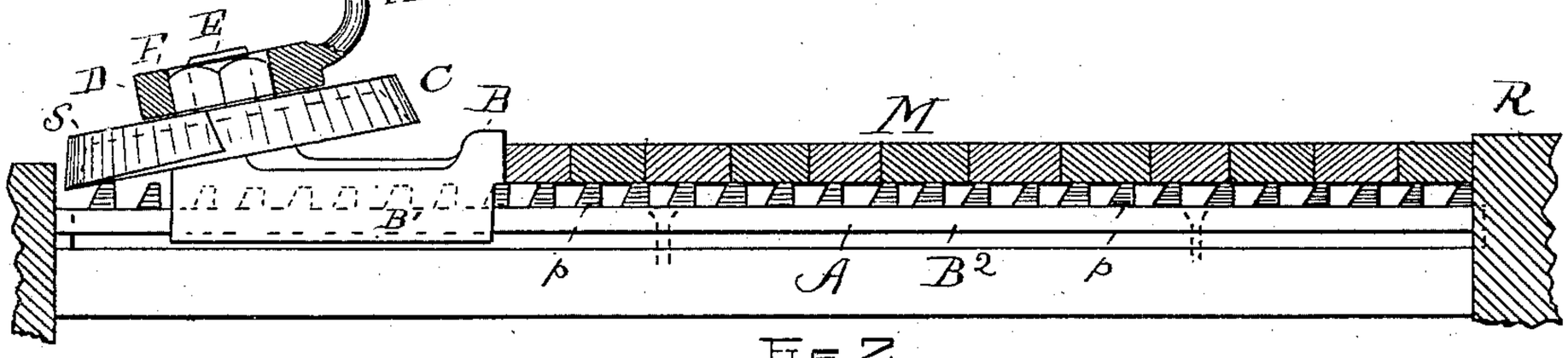


FIG. 2.

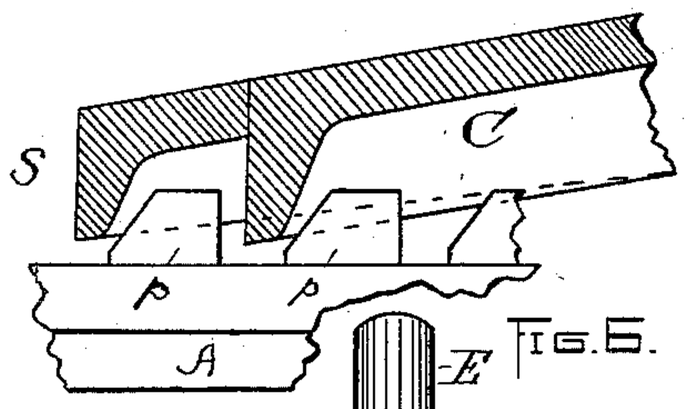


FIG. 6.

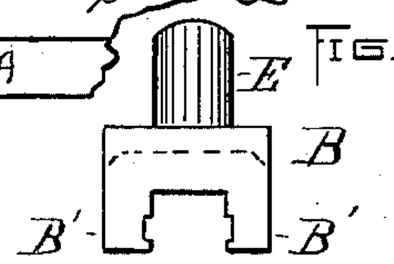


FIG. 7.

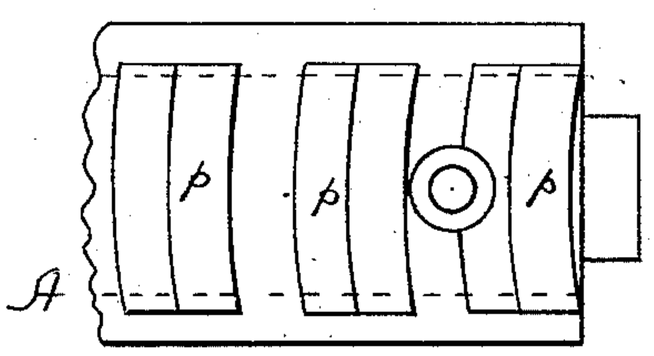


FIG. 3.

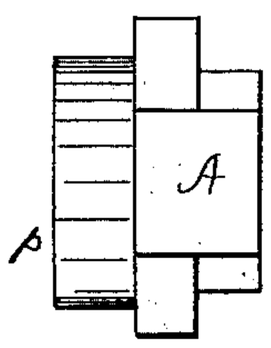


FIG. 4.

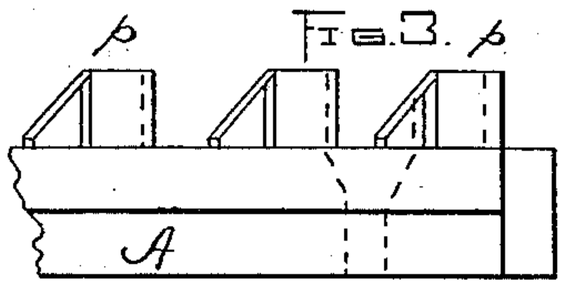


FIG. 5.

WITNESSES:

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UNITED STATES PATENT OFFICE.

ROBERT B. POOLE, OF UTICA, NEW YORK.

CLAMP.

SPECIFICATION forming part of Letters Patent No. 333,667, dated January 5, 1886.

Application filed February 8, 1884. Serial No. 120,189. (No model.)

To all whom it may concern:

Be it known that I, ROBERT B. POOLE, a citizen of the United States, residing in the city of Utica, in the county of Oneida and State of New York, have invented a new and useful Improvement in Clamping-Machines; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters and figures marked thereon.

My invention relates to that class of machines used in clamping or squeezing sounding-boards for musical instruments and other purposes; and it consists in the mechanism hereinafter described and claimed.

In the accompanying drawings, Figure 1 represents a top view, the broken lines indicating a section of the sounding-board removed, exposing the bed-piece, which is bolted to the surface of a work-bench. Fig. 2 is a longitudinal section view through the center of the bed-plate. Fig. 3 is a top view of a section of the bed-plate. Fig. 4 is an end view of the same. Fig. 5 is a side view of the same. Fig. 6 is a section of the bed-plate and the cam-circle. Fig. 7 is an end view of the slide.

In the accompanying drawings similar letters of reference refer to corresponding parts throughout the several views.

In constructing my machine I provide bed-plate A with circular cogs or projections *p* on the upper surface. One edge of the cogs is vertical and the other beveled. On the sides of the bed-piece I provide projecting flanges B^2 B^2, Fig. 4.

The bed-piece is provided with screw or bolt holes for securing the same to a work-bench or other suitable support.

I provide slide B, constructed to fit over the bed-plate, with grooves B′ B′, Fig. 7, for embracing the flanges and for sliding on the same. On the upper surface of this slide I provide pivot or post E, for receiving and rotating thereon circular screw-cam C, which has on the outer edge projecting flange or cam S, for engaging the cogs or projections on the bed-plate. The pivot or post on slide B is formed at such an angle as to allow flange or cam S to engage the vertical edge of the cog or projection, and to allow the upper flange or edge to clear the same, as shown in Fig. 6. The cam-circle is provided with projection F, for receiving wrench D, for rotating the same.

R represents a stationary stop at the end of the bed-plate, against which the work is crowded.

M represents the strips of wood to be operated on.

Operation: The slide and cam being in the position shown in Fig. 1, the strips of wood to be operated on are placed against stationary stop R. The operator turns the crank from right to left, thereby moving the cam screw circle on the cogs or projections. Each revolution moves the slide the distance of one cog or projection. For releasing the article, the cam screw circle is moved in the opposite direction.

I am aware that cam-disks pivoted to a bridge and engaging with a rack for operating a clamping-disk and a lifting-jack worked by a cam-disk have been heretofore provided which embrace mechanism not claimed by me.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a clamping or compressing machine, the combination, with the bed-piece having cogs or projections with projecting flanges, substantially as shown, of the slide fitting over and sliding on the same, with a cam screw circle pivoted thereon, as shown, with flange for engaging the cogs or projections, substantially as shown, for the purposes stated.

2. In a clamping or compressing machine, the combination of the bed-piece with cogs and flanges, and the movable slide fitting over and sliding on the bed-piece, with a cam screw circle with flange to engage the cogs mounted on the slide, and with means for rotating the same, whereby the slide is moved toward a stationary stop, substantially as shown, for the purposes stated.

ROBERT B. POOLE.

Witnesses:
WILLIAM P. DUNN,
J. K. BROWN.