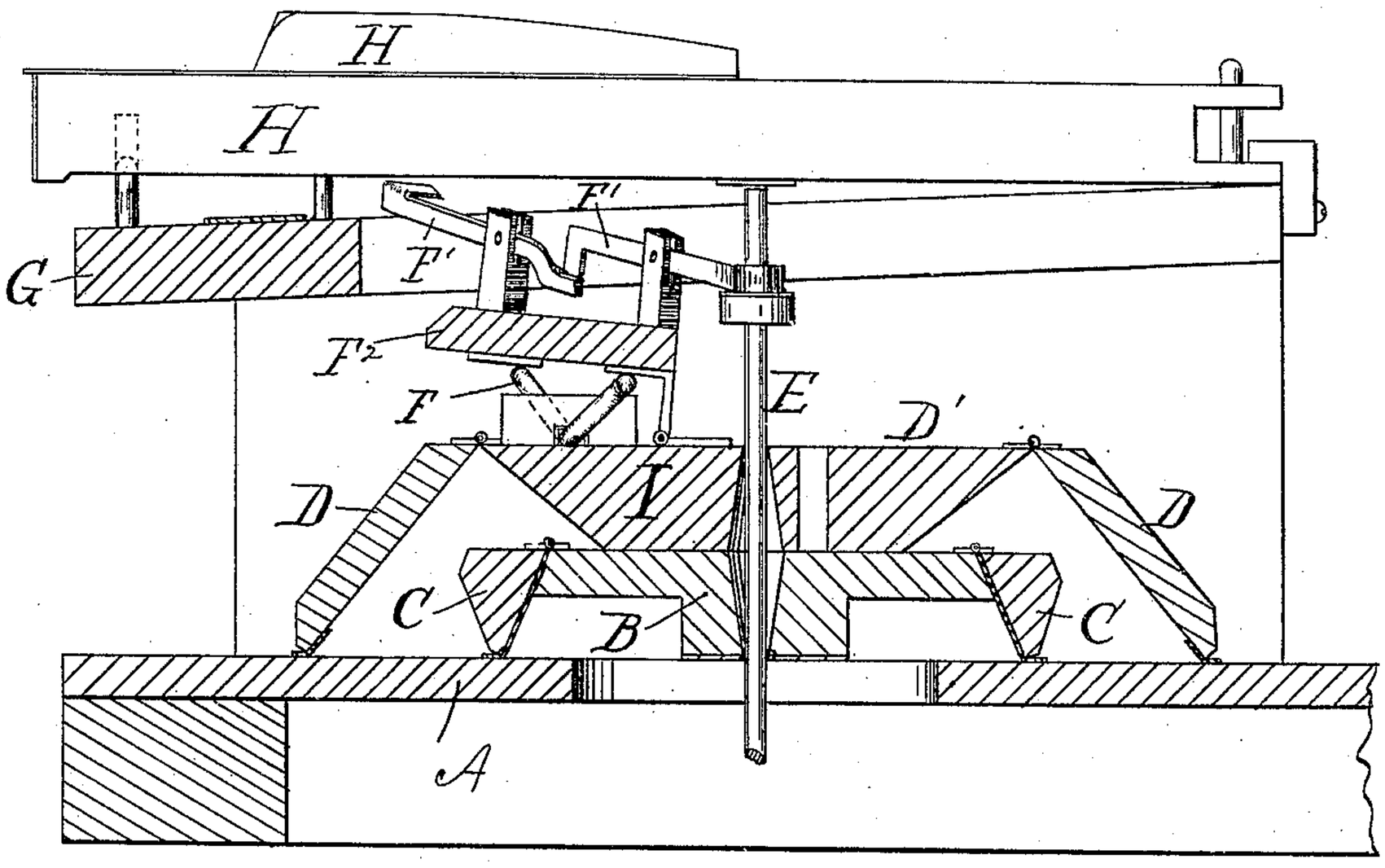
(No Model.)

J. HESSLER.

REED ORGAN.

No. 300,777. Patented June 24, 1884.



WITNESSES—

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UNITED STATES PATENT OFFICE.

JACOB HESSLER, OF CHICAGO, ILLINOIS, ASSIGNOR TO WILLIAM W. KIMBALL, OF SAME PLACE.

REED-ORGAN.

SPECIFICATION forming part of Letters Patent No. 300,777, dated June 24, 1884.

Application filed November 2, 1881. (No model.)

To all whom it may concern:

Be it known that I, JACOB HESSLER, of Chicago, Cook county, State of Illinois, have invented certain new and useful Improvements in Cabinet-Organs, of which the following is a specification.

This invention relates to the actions of cabinet-organs; and it consists in the novel combinations and construction hereinafter set forth.

The accompanying drawing shows a sectional elevation of that part of a reed or cabinet organ to which my invention relates, and therein A represents the sounding-board; B, the socket-board; C C, the mutes; D D, the swells; D′, the support for the back swell; E, the push-pin, whereby the reed-valves are opened; F, the shipper; F′ F′, the pivoted levers, and F^2 the supporting-block composing the coupler; G, the key-supporting frame, and H H the keys. None of these parts, in themselves and separately considered, are here claimed as new.

Instead of building up from the socket-board separate supports for the front swell and the couplers, I place upon the socket-board a longitudinal strip, I, which is made to serve four distinct functions. In the first place it supports the front swell; in the second, it supports also the couplers; in the third, it serves as a lateral bearing for the upper end of the push-pins; and, lastly, it closes the gaping mouths of the pin-openings in the socket-board. The drawing illustrates all these functions of the strip I very clearly.

In reed-organs as now constructed the pin-opening through the socket-board is a tapering opening, with its largest diameter at the top, the bottom fitting the pin as closely as may be without creating friction. This leaves an open receptacle surrounding the pin where dust or dirt accumulates, and from which receptacle the dirt soon works its way down, creating friction between the pins and socket-board, and lodging in the valves below, and so interfering with the operation of the pins and valves as to cause serious annoyance. To remedy this evil is the fourth function ascribed to the strip I, which I call the "pin-rail," and it is accomplished by making the rail to closely encircle each of the pins with a tapered opening the reverse of that in the socket-board, and by placing the rail directly upon the socket-board, instead of elevating it above the same, so as to leave an intervening longitudinal open space in the usual manner. By this new construction each pin is provided with a close socket, which exerts the minimum of friction thereon, and prevents the usual hissing common to most organs, caused by the drawing into the pin-opening of the air from said intervening open space and the accumulation of dust therein.

The openings, instead of being tapered, as shown, may be of larger diameter than the pins, except at the top and bottom, if that is found to be a cheaper way of manufacture.

I claim as my invention—

The combination of the pins, the socket-board, and the pin-rail, said board and rail being provided with an independent close and reversely-tapered socket for each of the pins, substantially as specified.

JACOB HESSLER.

Witnesses:
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