

No. 748,378.

PATENTED DEC. 29, 1903.

E. M. HUGHES.
ORGAN PEDAL.

APPLICATION FILED SEPT. 21, 1903.

NO MODEL.

Fig 1.

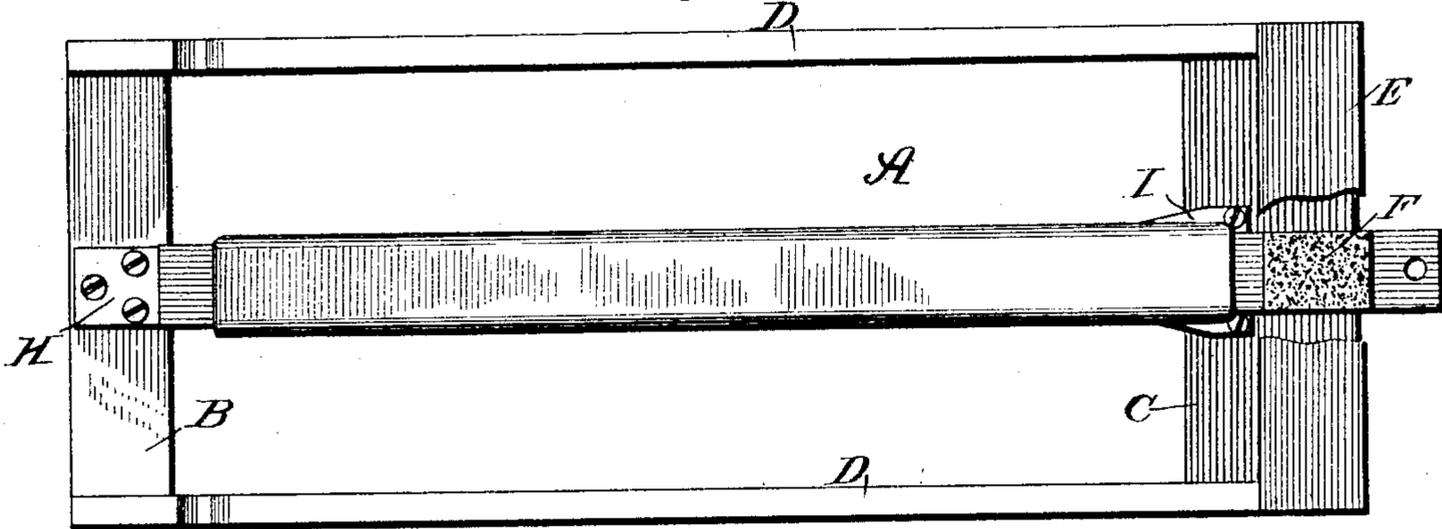


Fig 2.

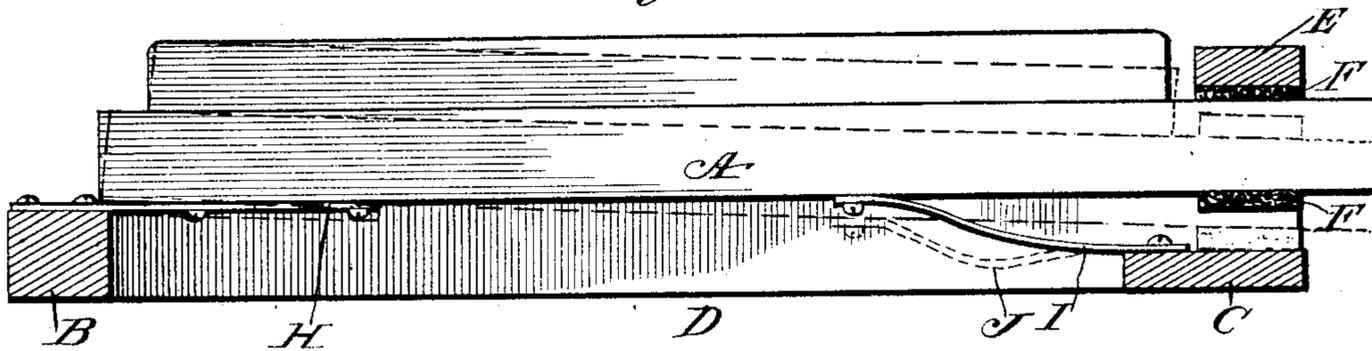
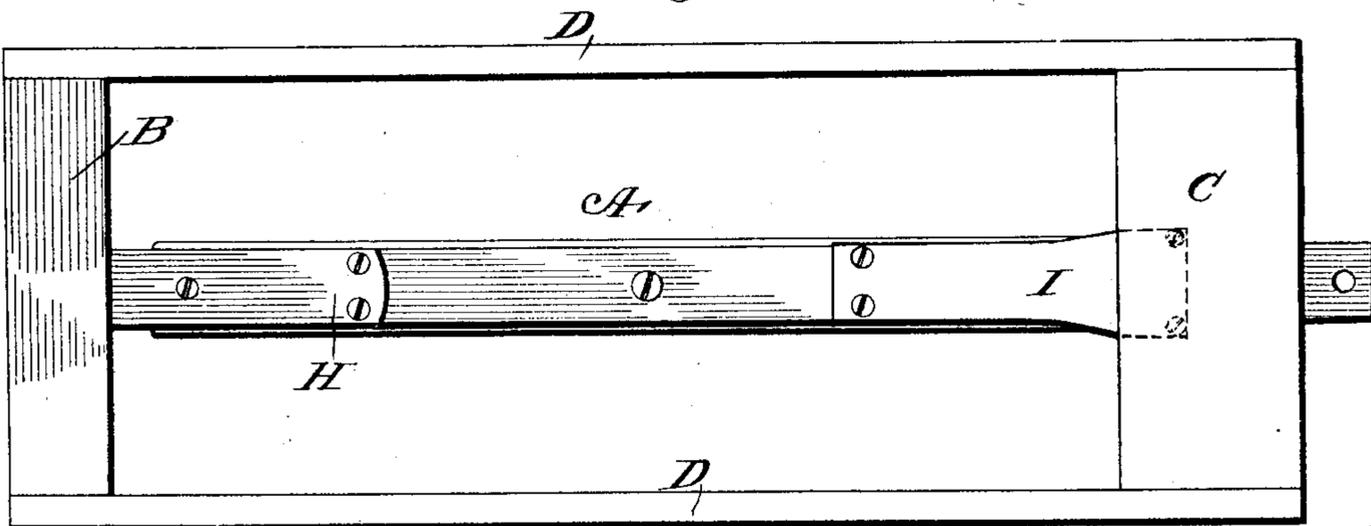


Fig 3.



WITNESSES:

Phil E. Barnes.
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INVENTOR

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UNITED STATES PATENT OFFICE.

EDGAR M. HUGHES, OF ASHLAND, KENTUCKY.

ORGAN-PEDAL.

SPECIFICATION forming part of Letters Patent No. 748,378, dated December 29, 1903.

Application filed September 21, 1903. Serial No. 174,026. (No model.)

To all whom it may concern:

Be it known that I, EDGAR M. HUGHES, a citizen of the United States, residing at Ashland, in the county of Boyd and State of Kentucky, have invented a new and Improved Organ-Pedal, of which the following is a specification.

This invention relates to pedals for musical instruments, more definitely stated pedal-keys for pipe-organs.

The object had in view is to provide a pedal or key of the character stated which will work permanently and absolutely without noise.

A further object had in view is to construct pedal-keys for organs and other instruments which shall work free from friction, and thereby obviate noise and lost motion common with similar pedals as they have been heretofore constructed.

The invention consists in the special construction, arrangement, and combination of parts, which will hereinafter be fully described and the novel features pointed out in the claims.

In order to enable others to make and use my invention, I will now proceed to describe it in detail with reference to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 is a top plan view showing one pedal and broken-away portions of the pedal-supporting frame. Fig. 2 is a transverse vertical sectional view through the supporting-frame, showing the pedal in side elevation and dotted to pushed-down position. Fig. 3 is a bottom plan view of the parts illustrated in Fig. 1.

So far as I am informed organ and other similar pedals as now made have dowel-pins or other guides at their free ends to prevent side play. Others are made with a stiff lifting-spring and without guiding means. To the latter construction there is objection, as the length of the pedal produces side play. Objection is made to those having dowel-pins or other guides due to frictional contact of the parts and the noise occasioned thereby.

In my invention no form of dowel-pin or side guide is used, a special and peculiar spring being employed in place thereof, the

use of which has additional advantage in assisting the ordinary pedal-lifting spring at the outer end of the pedal.

In practicing my invention any form of pedal A may be employed and the same have any suitable supporting-frame consisting, substantially, of a front board B, a rear board C, sides D, and a stop-rail E.

The inner or movable end of the pedal is provided on its upper and lower sides with suitable felt packing F. Any suitable flat lifting-spring H may be employed at the front or hinge-acting end of the pedal.

Under the movable or inner end of the pedal I arrange a flat resilient buckling-action spring I, having one end thereof fixedly secured to the rear board C and its other end fixedly secured to the under side of the pedal. The spring-securing means may be variously modified without departing from the spirit of my invention, so long as twisting and turning at the spring ends is obviated as invented by me. While tension of the spring I will measurably assist the pedal-lifting spring H, its chief use is guiding the inner or movable end of the pedal. The spring I should be constructed of suitable resilient material which will permit buckling thereof, as indicated at J in dotted pushed-down position of the pedal, and whereby its end fastenings are relieved from sliding or frictional action and which at the same time will serve to guide the movable end of the pedal and insure it against lateral play. The action of the spring being noiseless, it is apparent that a pedal having its free or inner end provided with suitable felt packing and a fixed flat guiding-spring, as invented by me, in connection with the well-known pedal-lifting spring, would effectively guide the pedal and obviate all noise due to frictional contact and wear of parts.

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

1. The combination with a pedal, of a supporting-frame, hinge-acting connection, of the pedal at its forward end to the supporting-frame, and a resilient buckling-spring having one end fixedly secured to the under side of

the pedal and its other end fixedly secured to the pedal-supporting frame, substantially as described.

2. The combination with an organ-pedal
5 having a fixedly-secured lifting-spring, and a supporting-frame, of a fixedly-secured flat guiding-spring, the said guiding-spring having one end secured to the supporting-frame,

and its other end secured to the under side of the pedal, near its inner or movable end, substantially as described.

EDGAR M. HUGHES.

Witnesses:

ARRIE M. HUGHES,
ARTHUR W. HOWE.