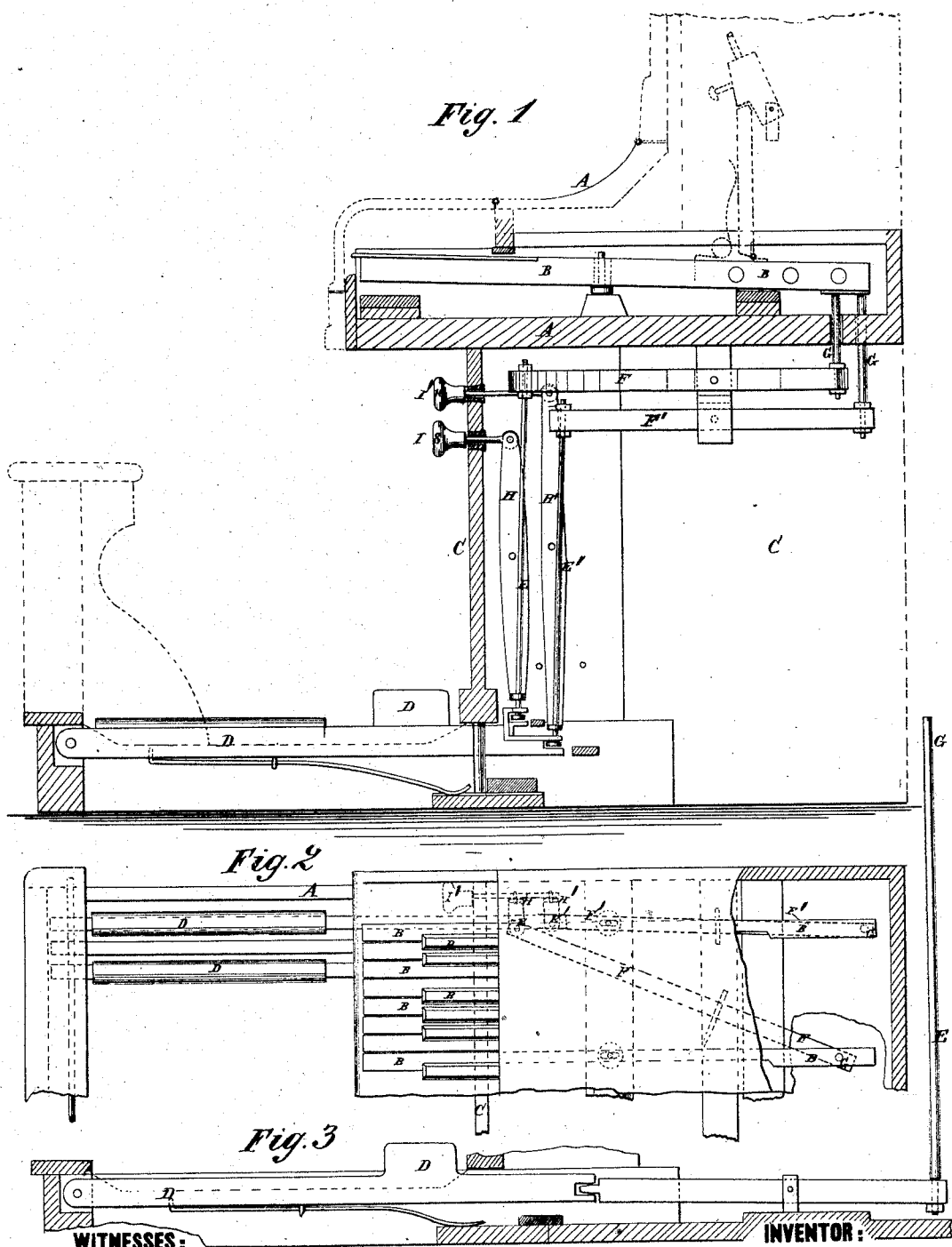


J. W. BRACKETT.
Pianoforte Attachments.

No. 155,219.

Patented Sept. 22, 1874.



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JOHN W. BRACKETT, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN PIANO-FORTE ATTACHMENTS.

Specification forming part of Letters Patent No. **155,219**, dated September 22, 1874; application filed July 11, 1874.

To all whom it may concern:

Be it known that I, JOHN W. BRACKETT, of Boston, Suffolk county, Massachusetts, have invented a new and useful Improvement in Pedal Piano-Fortes, of which the following is a specification:

Figure 1 is a vertical section of my improved device shown as applied to a piano. Fig. 2 is a top view of the same, and Fig. 3 is a detail vertical section, showing a modification of the same.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved organ-pedal attachment to pianos, which shall afford the organist and pupil all the advantages of the organ for practice, enabling them to gain the technics of both the piano and organ at the same time, and with one tuition, and which shall at the same time be simple in construction and convenient in use, and will not disfigure the instrument, or in any way interfere with the piano for ordinary use.

The invention consists in the combination of a set of organ-pedal trackers, levers, and stickers with the keys of a piano, and in the combination of the stops and their levers with the trackers of the device, as hereinafter fully described.

A represents the case of a piano, which may be a grand, upright, or square piano, as may be desired. B are the keys of the piano; about the construction of which there is nothing new, except that they should be made stronger than usual, or should be strengthened. C represents the case of the attachment, which may be a part of the piano-case, when the instrument and attachment are built at the same time, or may be a separate case, when the attachment is to be applied to an instrument already built. D are pedals, similar to organ-pedals in construction and arrangement.

With the ends of the pedals D, within the case C, are connected the ends of the trackers E, the upper ends of which are attached to the ends of the levers F. The levers F are pivoted to supports attached to the case C,

and to their other ends are attached stickers G, which are made sufficiently long to reach through the case, and project into such a position below the inner ends of the keys B as to strike said keys when the pedals D are operated.

If desired, the levers F may be connected directly with the inner ends of the pedals D, and the trackers E and stickers G made in one piece, and connected with the inner ends of said levers F, as shown in Fig. 3.

The first construction is preferred as being more compact, and as enabling the trackers to be uncoupled more conveniently when desired, as hereinafter described.

For this purpose the lower ends of the trackers E are made with heads, which are slipped into transverse slots in the inner ends of the pedals D, the body of said trackers E passing up through transverse slots in the upper parts of said inner ends, and also passing through holes in shifting bars or guides attached to or connected with the levers H, so that the whole series may be moved together. The levers H are pivoted to the case C, or to supports attached to said case, and with their upper ends are connected the stops I, the stems of which pass in through the case C.

As herein shown and described, the stops are on when pushed in, and off when drawn out.

By making the levers H compound levers, the operation of the said stops may be made to correspond with the operation of ordinary stops.

With the inner ends of each pedal D are connected two trackers, E E', with their levers F F', and stickers G, one of said stickers operating upon the key corresponding with the said pedal, and the other sticker operating upon the octave of said key, giving the tone corresponding to the eight and sixteen foot pipes of the organ, as the eight or sixteen foot stop may be on or off.

It should be observed that the series of levers F', operating upon the keys corresponding with the pedals, and the series of levers

F, operating upon the octaves of those keys, should be at different levels, so that they may not interfere with each other.

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

1. The combination of a set of organ-pedals, D, trackers E, levers F F', and stickers G, with the keys of a piano, substantially as herein shown and described.

2. The combination of the stops I I', and their levers H, with the trackers E, and the devices D F F' G, substantially as herein shown and described.

JOHN W. BRACKETT.

Witnesses:

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