

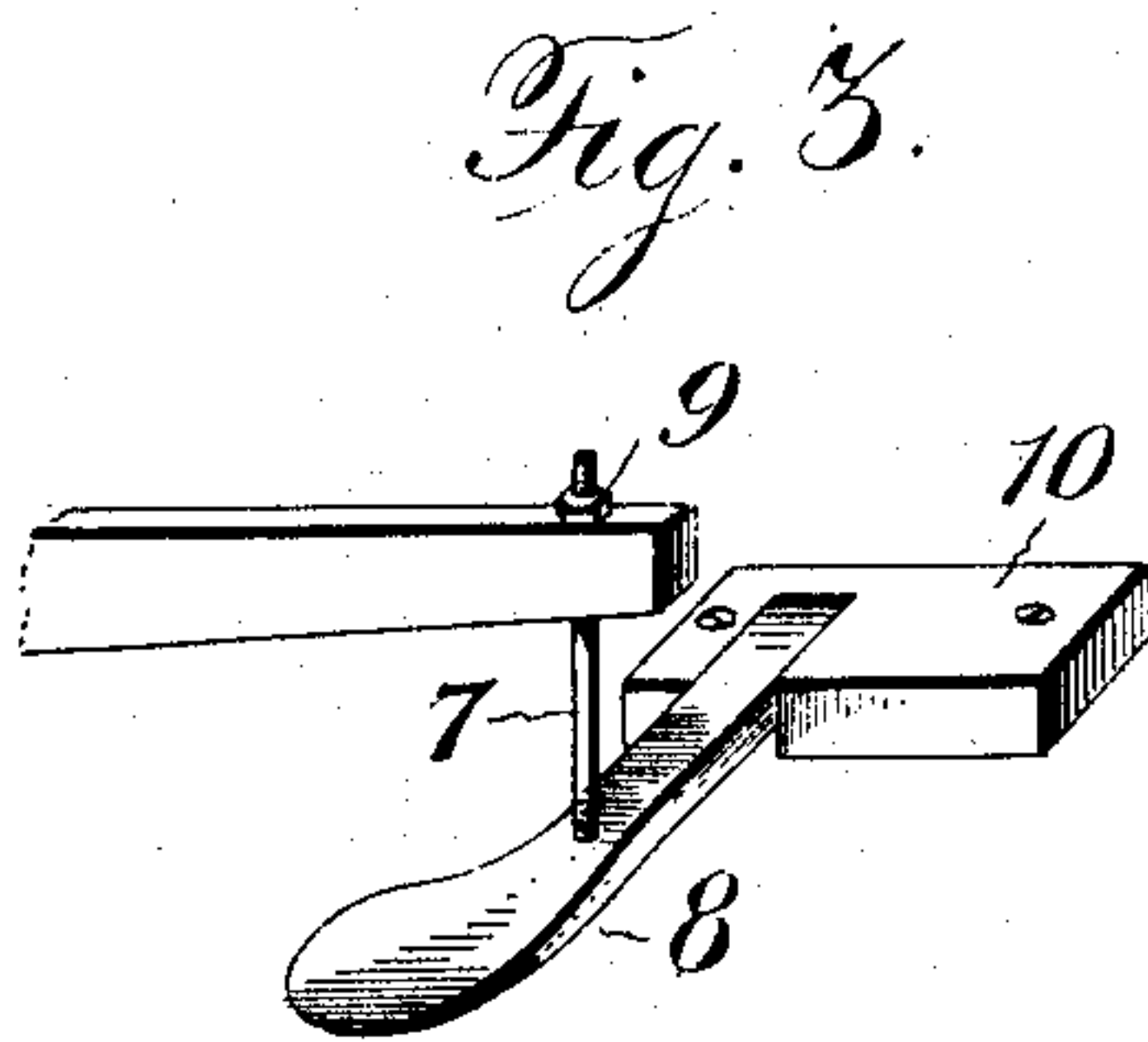
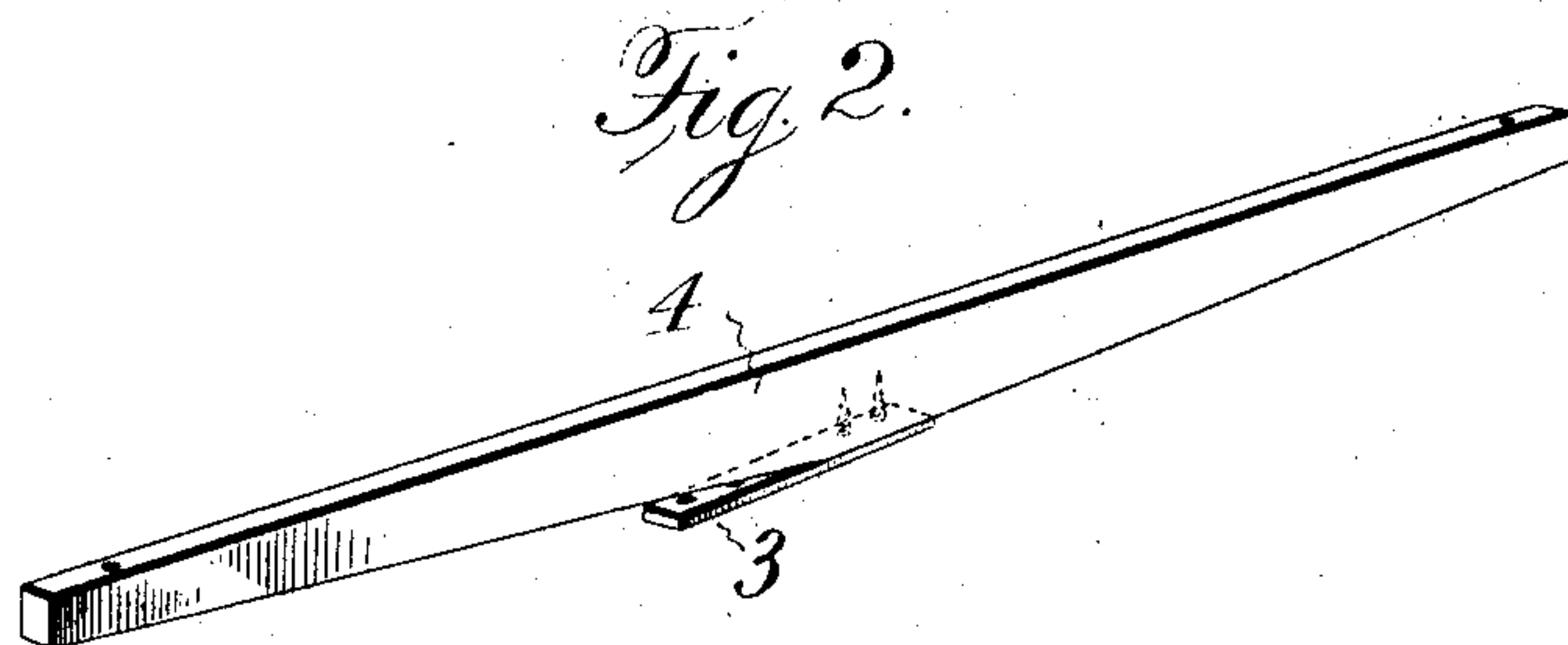
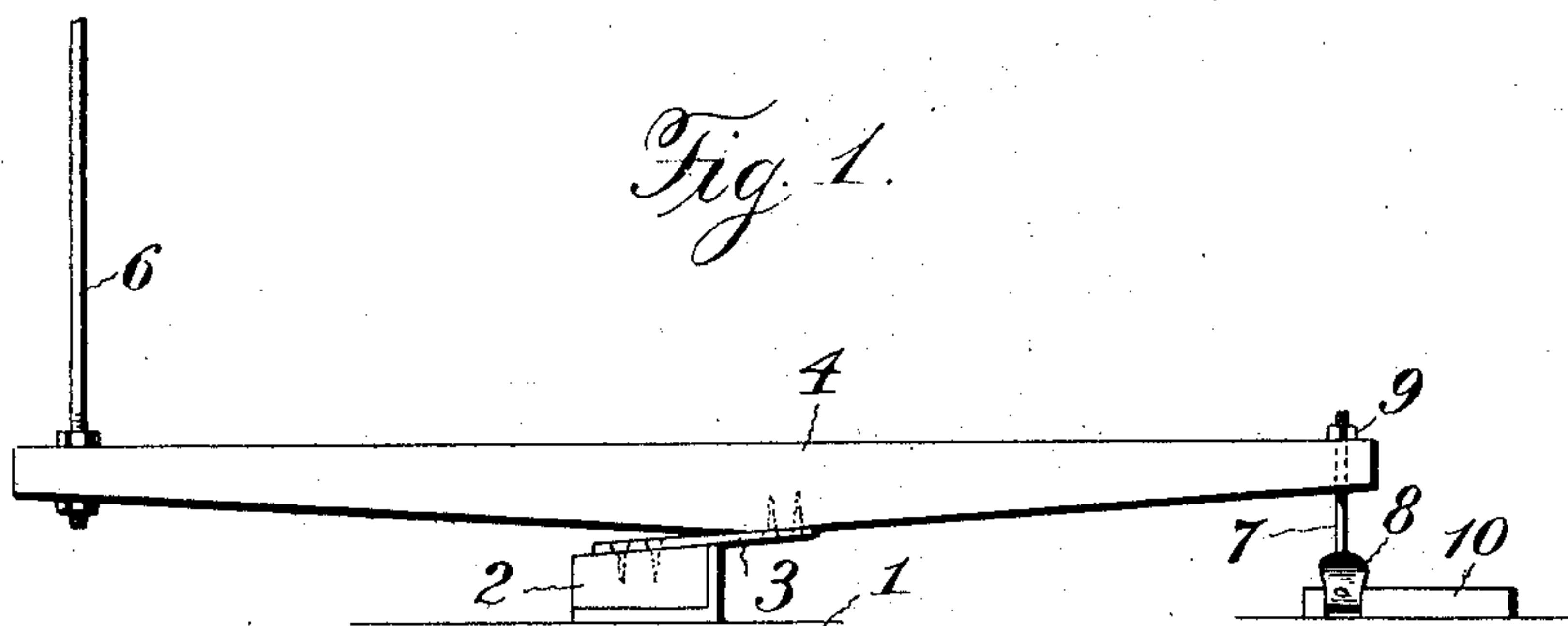
No. 668,143.

Patented Feb. 12, 1901.

G. H. FOX.  
TRAP WORK FOR PIANOS.

(Application filed Oct. 5, 1900.)

(No Model.)



Witnesses:  
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# UNITED STATES PATENT OFFICE.

GEORGE H. FOX, OF NORWALK, OHIO.

## TRAP WORK FOR PIANOS.

SPECIFICATION forming part of Letters Patent No. 668,143, dated February 12, 1901.

Application filed October 5, 1900. Serial No. 32,154. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE H. FOX, a resident of Norwalk, in the county of Huron and State of Ohio, have invented certain new and  
5 useful Improvements in Trap Work for Pianos; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and  
10 use the same.

My invention relates to an improvement in the trap work of a piano, the object of the invention being to provide an improved trap-work for pianos which will be entirely noiseless in operation and which will be extremely  
15 simple in construction and cheap to manufacture.

With this object in view the invention consists in certain novel features of construction  
20 and combinations and arrangements of parts, as will be more fully hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view illustrating my improvements. Fig.  
25 2 is a detail view of the pedal-lever, and Fig. 3 is a detail view showing the pedal and means attaching the same to the lever.

1 represents the bottom of a piano, on which is secured a block 2, having its upper edge made sloping or inclined from one end to the other, and a flat spring 3 is secured at one end on the upper edge of block 2 and projects beyond the end thereof. The free end of said  
30 spring 3 is secured to the lower edge of a pedal-lever 4, which latter is made widest at its center and has its lower edge gradually tapering from its center to its ends, the center or widest part of said lever being disposed in alinement with the highest end of  
40 block 2, so as to have pivotal movement thereon, and the spring 3 is secured to the lower edge of lever 4, which alines with the upper edge of block 2 and is adapted to hold the lever in its normal horizontal position. A  
45 vertical rod 6 is secured to one end of lever 4 and connects the same with the piano-action. (Not shown.) The other end of lever 4 is adjustably connected by screw-threaded spring-rod 7 with the pedal 8, and said rod 7  
50 is provided above the lever with a nut 9 to lock the rod in any position to which it may be adjusted.

The pedal 8 is pivotally connected at its inner end to a block 10, which latter is secured to the piano-frame.

It will be seen that when my improvements are employed there is no frictional contact of any of the parts. Hence the squeaking and grating noise incident to all trap works heretofore known is entirely avoided and a much  
60 simpler and more effectually operating mechanism is devised.

When the pedal 8 is depressed by the operator, it will draw down one end of lever 4 and elevate the other end to raise rod 6 and  
65 operate the piano-action, and when the pedal is released spring 3 will compel lever 4 to assume its former horizontal position, thus drawing pedal 8 back to its normal position.

Various slight changes might be resorted  
70 to in the general form and arrangement of the several parts set forth without departing from the spirit and scope of my invention, and hence I would have it understood that I do not wish to limit myself to the precise de-  
75 tails set forth, but consider myself at liberty to make such slight changes and alterations as fairly fall within the spirit and scope of my invention.

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

1. In a trap work for a piano, the combination with a block having a beveled upper face, of a pedal-lever having under faces beveled in both directions from its center and a  
85 straight spring secured to one beveled face and projecting beyond the apex formed by the union of said beveled faces, said projecting end of the straight spring secured to the  
90 beveled upper face of the block.

2. In a trap work for a piano, the combination of a block having an inclined upper edge, a pedal-lever having a beveled under face, and a flat spring secured at one end to  
95 the upper edge of the block and at its other end to the said beveled under face of the lever.

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

GEORGE H. FOX.

Witnesses:

L. L. DOUD,  
S. MORSE.