

No. 794,017.

PATENTED JULY 4, 1905.

C. H. HUBBELL.
PEDAL FOR PIANOS.
APPLICATION FILED MAR. 20, 1905.

Fig. 1

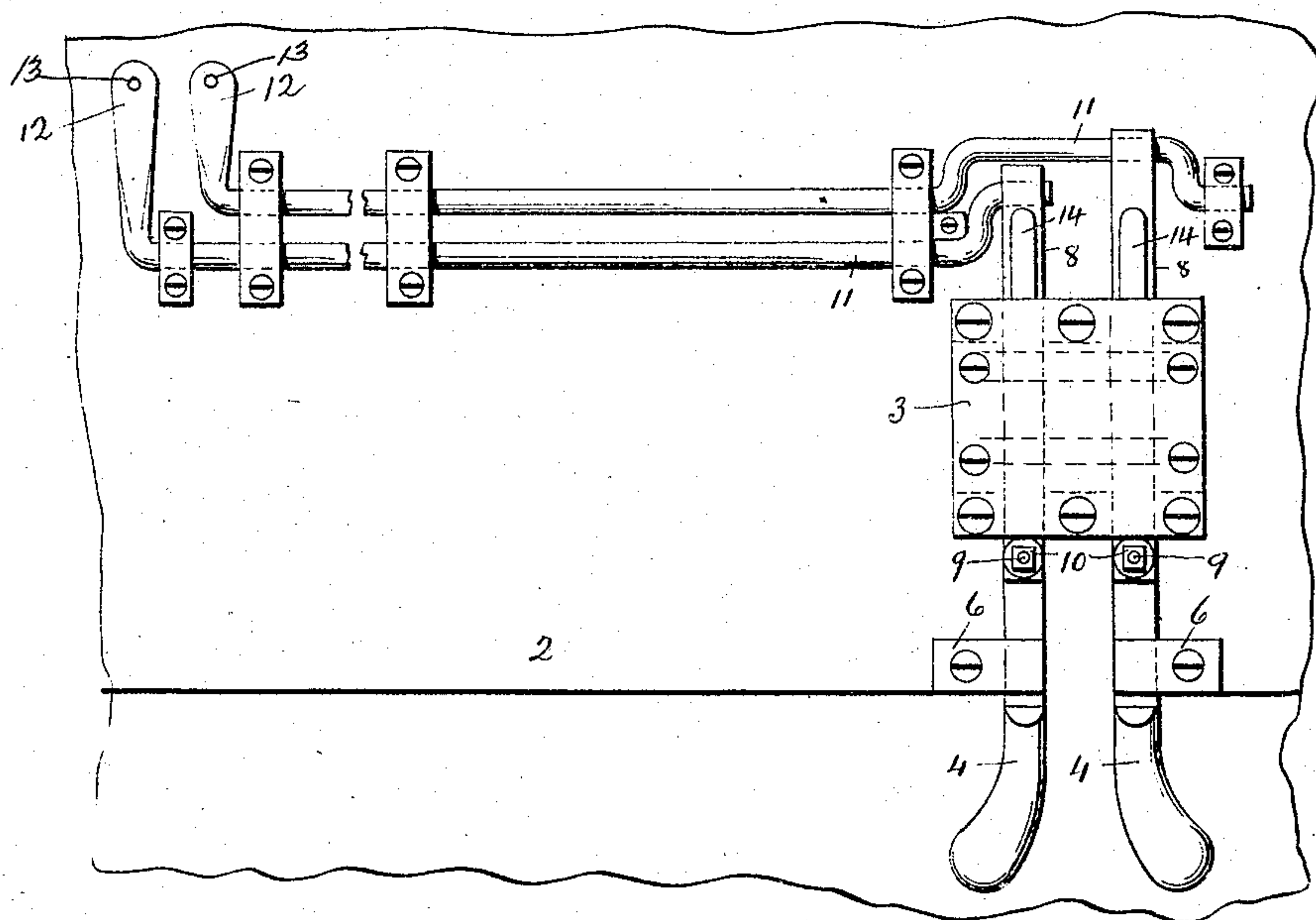
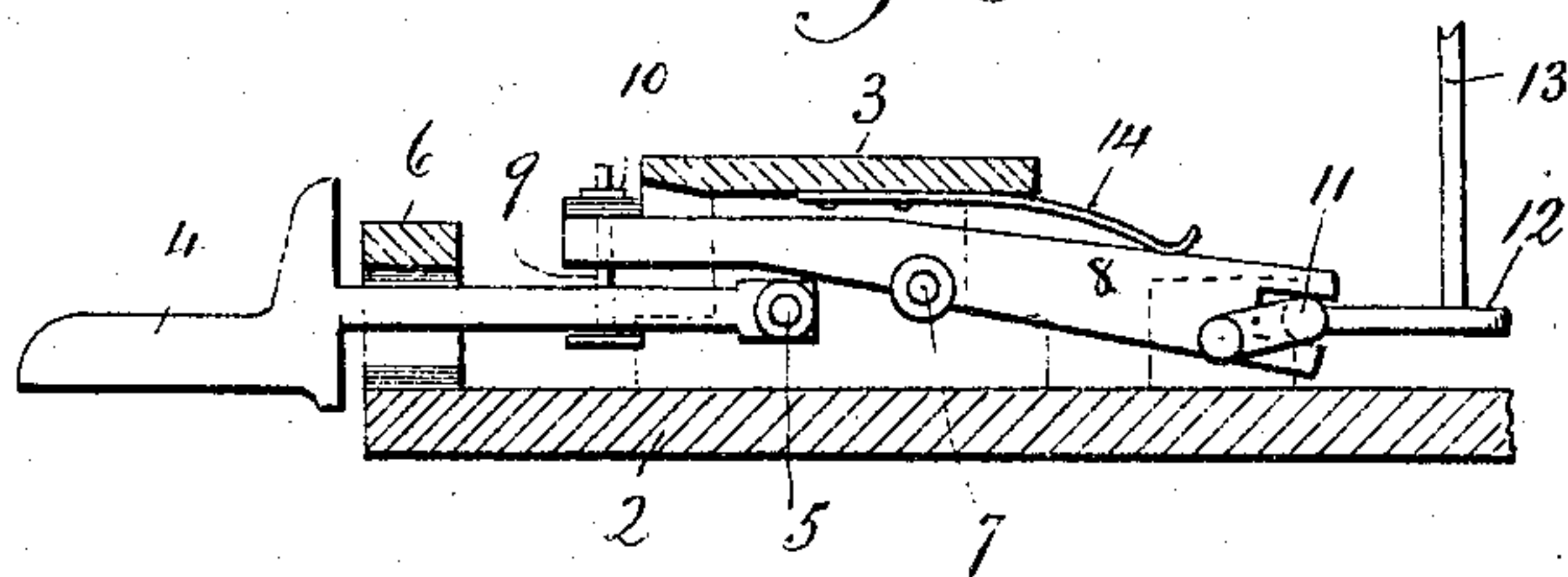


Fig. 2



Witnesses.
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CHARLES H. HUBBELL, OF DERBY, CONNECTICUT, ASSIGNOR TO THE
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PEDAL FOR PIANOS.

SPECIFICATION forming part of Letters Patent No. 794,017, dated July 4, 1905.

Application filed March 20, 1905. Serial No. 250,982.

To all whom it may concern:

Be it known that I, CHARLES H. HUBBELL, a citizen of the United States, residing at Derby, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Pedals for Pianos; and I do hereby declare the following, when taken in connection with the accompanying drawings and the figures of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a top or plan view of a pair of pedals constructed in accordance with my invention and shown in engagement with rockers by actuating the dampers; Fig. 2, a sectional side view of the same.

This invention relates to an improvement in pedals for pianos.

In the usual construction and arrangement of pedals for pianos the inner end of the pedal-lever operates upon rods or trackers to turn them so as to raise vertically-arranged rods to move the dampers to produce piano or fortissimo effects; but in case adjustment is required the adjustment must be made in the trackers or in the vertical rods.

The object of this invention is to arrange the pedals with compound levers which may be adjusted relative to each other, whereby the necessary adjustment in the movement of the vertical rods is accomplished and can be made with great convenience.

Within the case and upon the base 2 thereof I arrange a housing 3, in which the usual pedals 4 are pivoted, as at 5, the pedals passing through the pedal-rail 6 in the usual manner, so as to project outward therefrom. Also pivoted within the housing in rear of the pivots 5 and upon pivots 7 are pedal-levers 8. These levers extend forward over the inner end of the pedals 4 and are connected therewith by adjusting-screws 9, provided at their upper ends with nuts 10, whereby the distance between the forward end of the lever and the pedals may be determined. At the rear ends these pedal-levers 8 are bifurcated to engage with the ends of trackers or rockers 11, which usually extend to one side, where they are pro-

vided with flattened ends 12 to receive the lower ends of vertically-movable rods 13, which extend into engagement with the dampers. (Not shown.) Secured to the under face of the top of the housing are flat springs 14, which extend rearward and bear upon the inner ends of the pedal-levers 8 and tending to force them downward, and hence hold the pedals 4 in their raised position. It will be understood without illustration that the inner ends of the pedal-levers 8 might engage directly with the rods 13 if the construction of the piano were such as to bring the rods in a central position. Downward pressure upon the outer end of the pedals 4 draws the outer end of the pedal-levers 8 downward, raising their rear ends, and hence turning the rockers 11, so as to raise the flattened ends 12 and raise the rods 13. When the pedal is released, the springs 14 act to depress the inner ends of the levers 8, and hence raise the pedals to their normal position. In case adjustment is required the nuts 10 may be turned to increase or shorten the distance between the end of the lever 8 and the pedals, so as to give more or less movement to the inner ends of the pedal-levers, and this adjustment may be readily made by simply removing the front of the case, which is always arranged for that purpose. Thus adjustment may be conveniently made.

By employing the pedal-levers in connection with the pedals a compound leverage is secured, which makes the operation of the pedals easier than when they act directly upon the rockers.

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

1. The herein-described pedal mechanism for pianos consisting of pedals pivoted in the case and projecting outward therefrom, pedal-levers arranged above the pedals in the same vertical plane and pivoted in the case in rear of the said pedals, said levers connected at their outer ends with said pedals and connected at their inner ends with mechanism to actuate the dampers, substantially as described.

2. The herein-described pedal mechanism for pianos comprising a housing mounted in the bottom of the case, pedals pivoted at their inner ends within said housing and projecting
5 outward through said case, levers pivotally mounted in said housing in rear of said pedals and extending forward over said pedals and in the same vertical plane and rearward therefrom, connection between the outer end
10 of the levers and the said pedals, and a spring adapted to force the inner end of said levers downward, substantially as described.

3. The herein-described pedal mechanism for pianos, consisting of pedals pivotally
15 mounted in the case and projecting outward

therefrom, pedal-levers also pivoted in the case in rear of said pedals, said levers projecting forward over said pedals and in the same vertical plane and rearward therefrom, and screw adjustment between the outer ends
20 of said levers and said pedals whereby the distance between them may be adjusted, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscrib-
25 ing witnesses.

CHARLES H. HUBBELL.

Witnesses:

F. H. McFARLAND,
J. L. MAILLARD.