

No. 854,307.

PATENTED MAY 21, 1907.

J. D. PEASE.
PEDAL FOR AUTOMATIC PIANOS.

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Fig. 1.

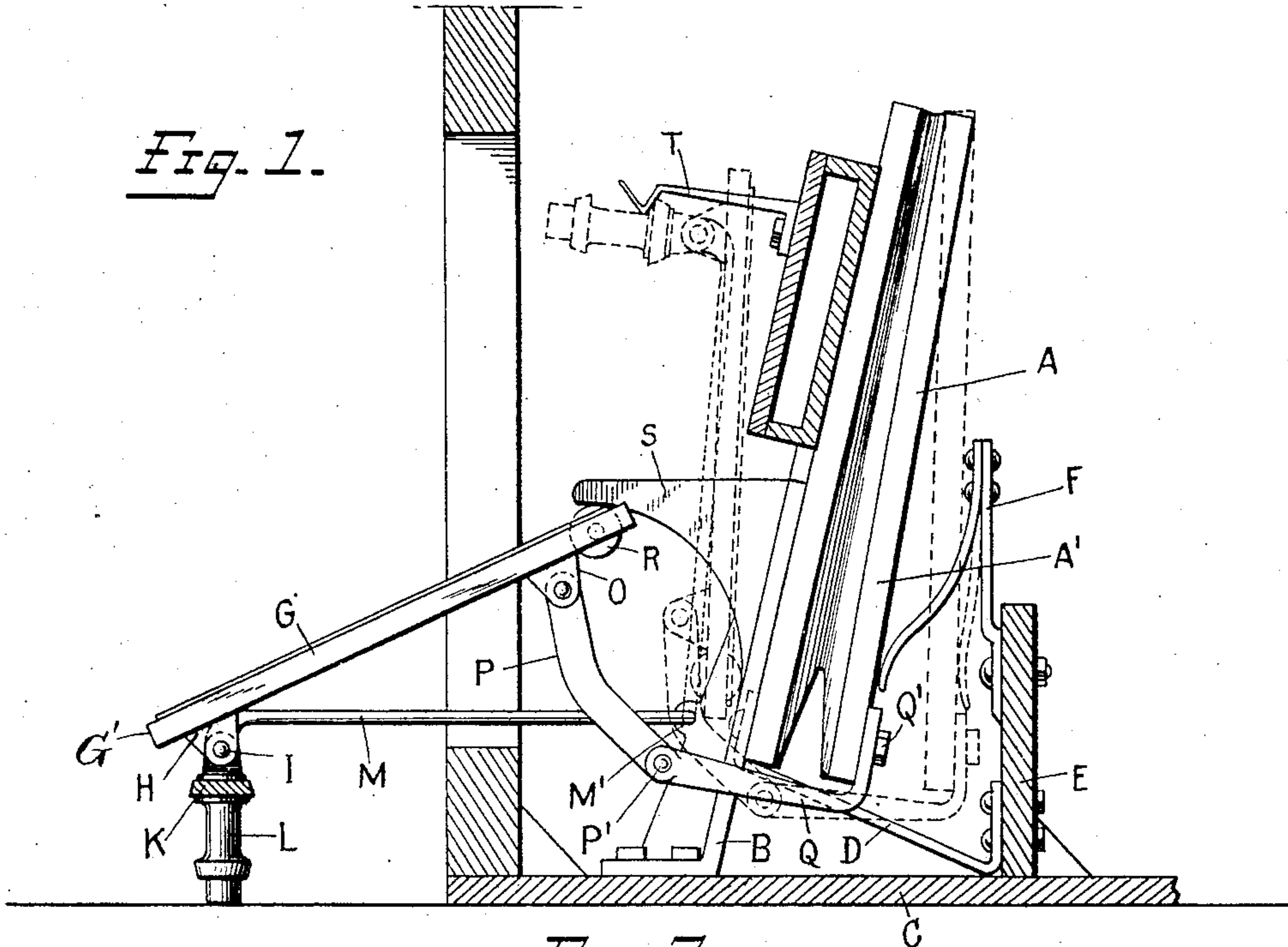
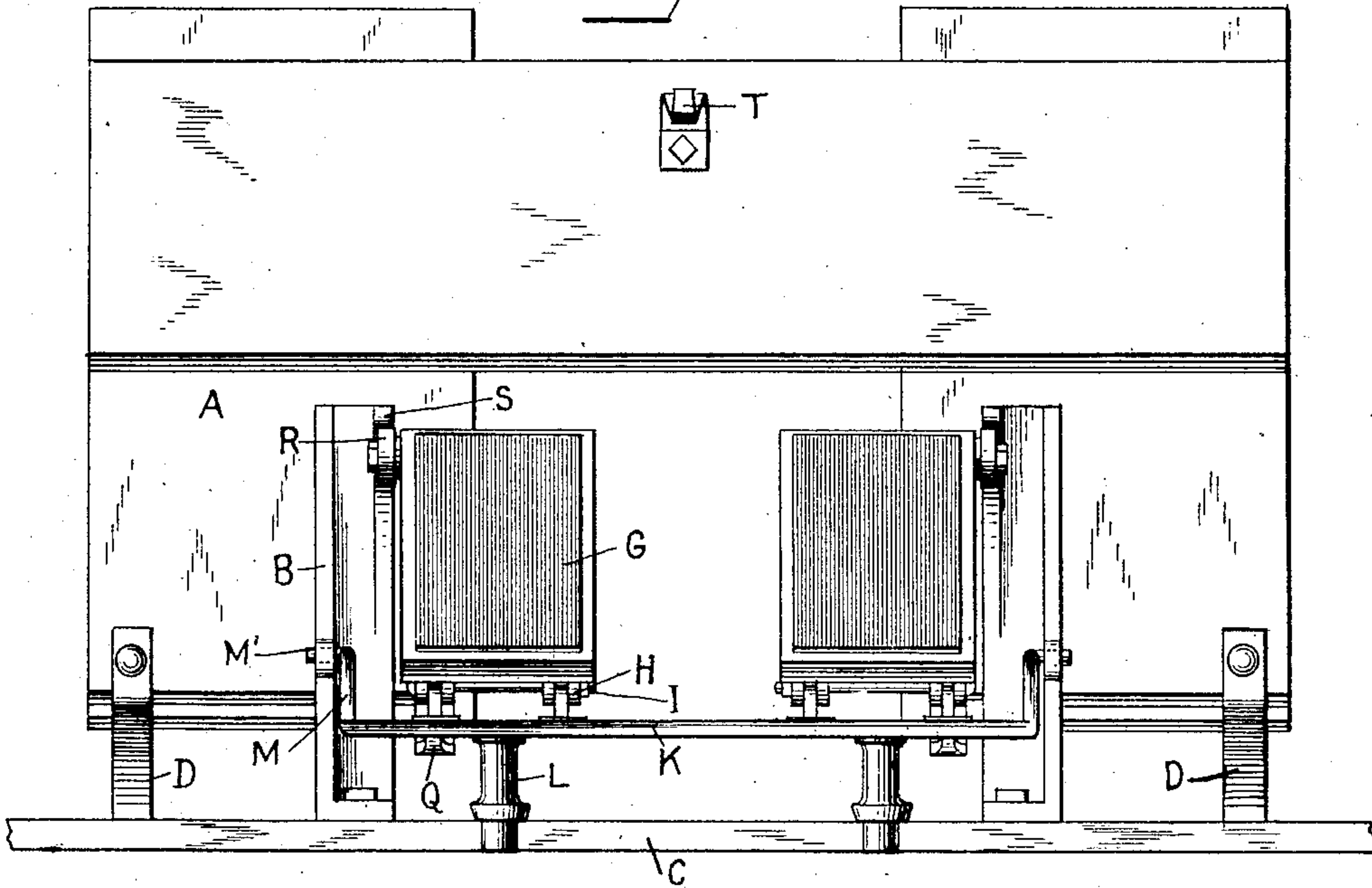


Fig. 2.



WITNESSES

G. V. Rasmussen
John A. Kellenbeck

INVENTOR

John D. Pease
BY *Wm. H. Thwait*
his ATTORNEYS

UNITED STATES PATENT OFFICE.

JOHN D. PEASE, OF NEW YORK, N. Y.

PEDAL FOR AUTOMATIC PIANOS.

No. 854,307.

Specification of Letters Patent.

Patented May 21, 1907.

Application filed March 22, 1907. Serial No. 363,964.

To all whom it may concern:

Be it known that I, JOHN D. PEASE, a citizen of the United States, and a resident of the borough of Manhattan, city, county, and State of New York, have invented certain new and useful Improvements in Pedals for Automatic Pianos, of which the following is a specification.

My invention relates to pedals for automatic pianos and has for its object to improve and simplify the construction thereof so as to make said pedals capable of being easily folded when not in use.

Other objects will appear from the annexed description and the features of novelty will be pointed out in the appended claims.

Reference is to be had to the accompanying drawing in which

Figure 1. is a side elevation of my improved construction together with as much of the adjacent mechanism as is necessary to illustrate my invention; and Fig. 2 is a front elevation thereof.

In the drawing A represents the bellows which may be of any customary construction and are secured in position on standards or supports B so as to leave the one member A¹ capable of being moved in the usual manner. The supports B are secured to the base board C of the piano and are strengthened by means of braces D having their one end fastened to a stationary portion E of the piano. F is the usual spring located between said stationary portion E and the movable portion A¹ of the bellows A for the purpose of returning said movable portion to its normal position.

G are the pedals which are provided at the heel ends with lugs H pivoted by means of a rod I to lugs forming part of or secured to the cross bar K, to which are secured standards or feet L. Rods M are secured to the cross bar K near each end thereof and each rod has its other end pivotally secured at M¹ to the supports B. The pedals G are each further provided at the toe ends with lugs or ears O to which are secured links P which in turn are pivotally fastened at P¹ to arms Q. These arms Q are fastened by means of nuts Q¹ to the movable member A¹ of the bellows A. Rollers R are journaled on the pedals G and are arranged to engage guides or cams S secured to the supports B for the purpose to be more clearly described hereinafter.

T is a catch or lock located on a stationary

portion of the bellows and is adapted to engage the cross bar K for maintaining said pedals in their folded position.

In the drawings the pedals are shown in the operative or playing position, that is they are in a position to work the bellows to operate the piano. When the pedals are no longer required and it is desired to fold them into the case, the heel ends G¹ are lifted upward by pressing against the cross bar K. This will cause the rollers R to ride on the cams S thus forcing the ends G² of the pedals G downward. During this operation the rods M will swing on their pivots M¹ until the pedals have been swung inward and the ends G¹ thereof have been caught under the catches T. The links P meanwhile swing on the pivot P¹ it being understood that as the ends G² of the pedals move downward the arms Q are forced back with the movable portion A¹ of the bellows. The pedals may thus be easily lifted into a folded or inoperative position by the foot of the user thus doing away with the necessity of bending down on the part of the person using the instrument. My construction also permits the pedals with their connections to be completely folded out of the way.

Various modifications may be made without departing from the nature of my invention as defined in the claims.

I claim

1. The combination of the bellows having a forwardly projecting arm secured to its movable member, the link pivoted to the forward end of said arm, the pedal the toe end of which is pivotally connected with the other end of the link, the rod one end of which is fulcrumed on a stationary support and the other end of which is pivotally connected with the heel end of the pedal, the cam or guide for the toe end of the pedal, and means for holding the pedal in its elevated position.

2. The combination of two bellows each having a forwardly-projecting arm secured to its movable member, the links pivoted to the forward ends of said arms, the pedals having their toe ends pivotally connected with said links, cams or guides for the toe ends of the pedals, rods fulcrumed on a stationary support, a crossbar connecting said rods and pivotally connected with the heel ends of the pedals, and means for holding the pedals in their elevated position.

3. The combination of two bellows, each

having a forwardly-projecting arm secured to its movable member, the links pivoted to the forward ends of said arms, the pedals having their toe ends pivotally connected
 5 with said links, cams or guides for the toe ends of the pedals, rods fulcrumed on a stationary support, a crossbar connecting said rods and pivotally connected with the heel ends of the pedals, feet depending from said
 10 crossbar, and means for holding the pedals in their elevated position.

4. The combination of the bellows, the pedal, the link pivotally connected with the movable member of the bellows and with the
 15 toe end of the pedal, the rod one end of which is fulcrumed on a stationary support and the other end of which is pivotally connected with the heel end of the pedal, and the cam or guide for the toe end of the pedal.

20 5. The combination of the bellows, the pedal, the link pivotally connected with the movable member of the bellows and with the toe end of the pedal, the rod one end of which is fulcrumed on a stationary support and the
 25 other end of which is pivotally connected with the heel end of the pedal, the cam or guide for the toe end of the pedal and means for holding the pedal in its elevated position.

6. The combination of the bellows, the
 30 pedal, an operative connection between the pedal and the bellows, a normally stationary member connected with the pedal to move therewith when the pedal is being shifted to its inactive position, and a guide for directing the toe end of the pedal during such shifting movement.
 35

7. The combination of the bellows, the pedal, an operative connection between the pedal and the bellows, a normally stationary
 40 member connected with the pedal to move therewith when the pedal is being shifted to its inactive position, a guide located adjacent to the path which the toe end of the pedal describes during such shifting movement,

and a roller carried by the toe end of the pedal and engaging said guide. 45

8. The combination of the bellows having a forwardly projecting arm secured to its movable member, the link pivoted to the forward end of said arm, the pedal, the toe
 50 end of which is pivotally connected with the other end of the link, the rod one end of which is fulcrumed on a stationary support and the other end of which is pivotally connected with the heel end of the pedal, and the
 55 cam or guide for engaging the toe end of the pedal as the latter is being shifted to its inactive position.

9. The combination of two bellows each having a forwardly-projecting arm secured
 60 to its movable member, the links pivoted to the forward ends of said arms, the pedals having their toe ends pivotally connected with said links, cams or guides for engaging the toe ends of the pedals as the latter are being
 65 shifted to their inactive position, rods fulcrumed on a stationary support, and a crossbar connecting said rods and pivotally connected with the heel ends of the pedals.

10. The combination of two bellows each
 70 having a forwardly-projecting arm secured to its movable member, the links pivoted to the forward ends of said arms, the pedals having their toe ends pivotally connected with said links, cams or guides for engaging
 75 the toe ends of the pedals as the latter are being shifted to their inactive position, rods fulcrumed on a stationary support, a crossbar connecting said rods and pivotally connected with the heel ends of the pedals, and
 80 feet depending from said crossbar.

In testimony whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

JOHN D. PEASE.

Witnesses:

JOHN LOTKA,

JOHN A. KEHLENBECK.