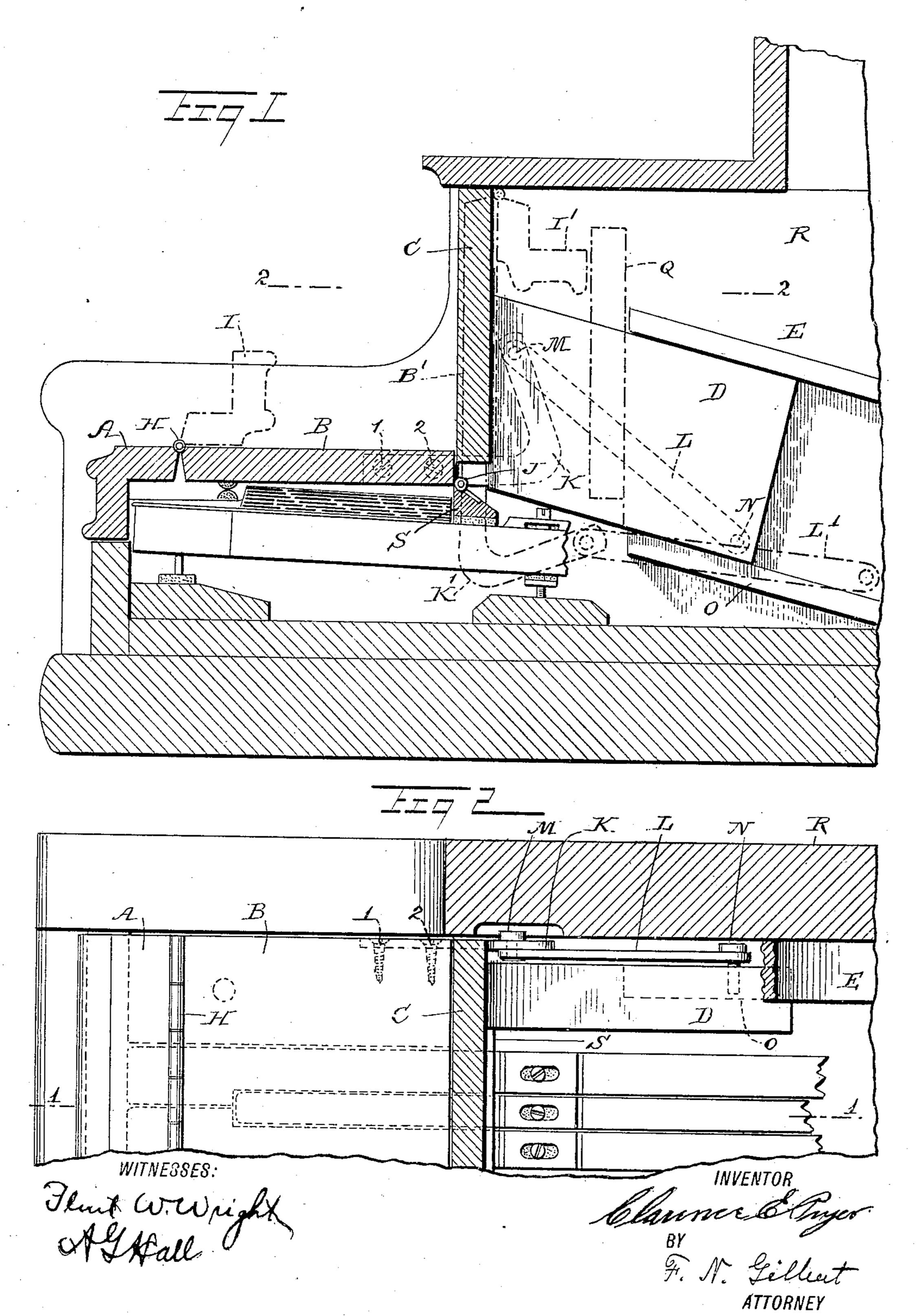
C. E. PRYOR.

FALL BOARD MECHANISM FOR PIANOS.

APPLICATION FILED JULY 12, 1907.

898,781.

Patented Sept. 15, 1908.



UNITED STATES PATENT OFFICE.

CLARENCE E. PRYOR, OF BINGHAMTON, NEW YORK.

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No. 898,781.

Specification of Letters Patent.

Patented Sept. 15, 1908.

Application filed July 12, 1907. Serial No. 383,531.

To all whom it may concern:

Be it known that I, CLARENCE E. PRYOR, a citizen of the United States, residing at | new and useful Improvements in Fall-Board Mechanisms for Pianos, of which the following is a specification.

My invention relates to improvements in 10 fall board mechanisms for pianos in which horizontal and upright boards operate in conjunction with a series of arms and sliding blocks to control the action of the fall board

as the piano is opened.

The objects of my improvement are 1. To economize space in the interior of the piano. 2. To avoid the fall and jar that often occurs in the operation of a fall board operated in the ordinary method. 3. To permit the 20 piano to be opened for a period of time and at the same time to prevent the accumulation of dust on the interior parts of the piano while it thus remains open. I attain these objects by the mechanism illustrated in the 25 accompanying drawing in which

Figure 1 is a cross section of the front portion of a piano taken on the line 1—1 of Fig 2. Fig. 2 is a sectional plan taken on the

line 2—2 of Fig. 1.

Similar letters refer to similar parts

throughout the several views.

In my invention, A is the front fall board of a piano; B is the back fall board of a piano, and C the upright of the back fall.

S is the name board of a piano.

The front fall board A has a hinged connection with the back fall B at the hinge H as shown in Fig. 1 and Fig. 2. And when opened the front fall tips back to the position 40 shown by I. The back fall has a hinged connection with the name board of the piano at J, and to this back fall B is firmly attached an arm K by screw connections 1 and 2. A similar arm is attached to the 45 opposite end also of the back fall B. The arm K is connected with the link L by pivotal connections at M. The link L is pivoted at N with the sliding block D. The sliding block D is firmly attached to the 50 upright back fall C. The sliding block D operates between the two projecting shoulders E and O as shown in Figs. 1 and 2. The shoulders E and O are firmly attached to the side of the frame R of the piano, and 55 furnish a supporting track for the movement of the sliding block D. When the

piano is opened the front fall board A is tipped back into a position shown at I. The back fall B operating on its hinge J is tipped Binghamton, in the county of Broome and | back until it is in an upright position. It 60 5 State of New York, have invented certain | then takes the place of the upright back fall C as shown by B', and A is then in the position shown at I'. As the back fall is lifted up, it moves the arm K which connecting with the link L pushes back the 65 slide D which as before stated, is firmly attached to the upright back fall C, and hence moves C backward and downward until it assumes the position as shown at Q, and the back fall B has taken its place as shown 70 at B'. In this position, the arm K has then assumed the position shown by K' and the link L has assumed the position shown by L'. A similar slide D and a similar arm K and link L have connections with the opposite 75 end of the upright back fall C, and in this manner and by this operation the fall board is lifted from over the key board and the piano is opened.

Having thus described my invention, what 80 I claim as new and for which I desire Letters

Patent, are as follows:—

1. In a piano, the piano body having a fall board comprising two sections, one in front of the other, the first section hinged to the sec- 85 ond section, the second section hinged to the piano body, projecting metallic arms firmly attached to the second section of the fall board; links within the piano body having pivotal connection with the arms on the sec- 90 ond section of the fall board; an upright back fall behind such fall board forming the front of the piano case, sliding blocks secured to the back fall and projecting into the interior of the piano body; parallel shoulders pro- 95 jecting from either side of the piano body and between which said sliding blocks move and are guided, the links having pivotal connection with the sliding blocks, and when moved inward by the lifting of the second 100 section, pushing inward the blocks so that when the second section is tipped, the upright back fall will be caused to move inward guided by the sliding blocks and leaving an open space for the reception of the second 105 section, which then becomes raised to an upright position.

2. In a piano, the piano body having a fall board composed of two sections hinged together, the front section extending down 110 over the outer ends of the key bars, its inner edge hinged to the second section, and so

connected as to permit of its being folded over back upon the second section, the second section hinged on its inner edge to the piano body, and capable of being raised by this hinged connection into an upright position, carrying with it the first section folded over upon it; said piano body having an upright movable front, having on each end arms extending within the body and parallel with the sides of the body, inclined guides carried by the piano body to receive said arms, each arm having link connection with the second section of the fall board.

3. The combination with a piano or like instrument, of a fall board protecting the keys thereof, a back fall in rear of the fall

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board and adapted to be shifted backward into the piano case, downwardly and rearwardly inclined arms carried by the back fall, similarly inclined guides on the sides of the piano to receive said arms and direct the fall board, and connections between the fall board and back fall to cause the back fall to retreat into the piano case as the fall board is opened.

In testimony whereof I have affixed my signature, in presence of two witnesses.

CLARENCE E. PRYOR.

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Witnesses:
FLINT W. WRIGHT,
A. G. HALL.