

March 20, 1928.

1,663,238

P. P. BILHORN

FOLDING ORGAN

Filed Dec. 3, 1924

2 Sheets-Sheet 1

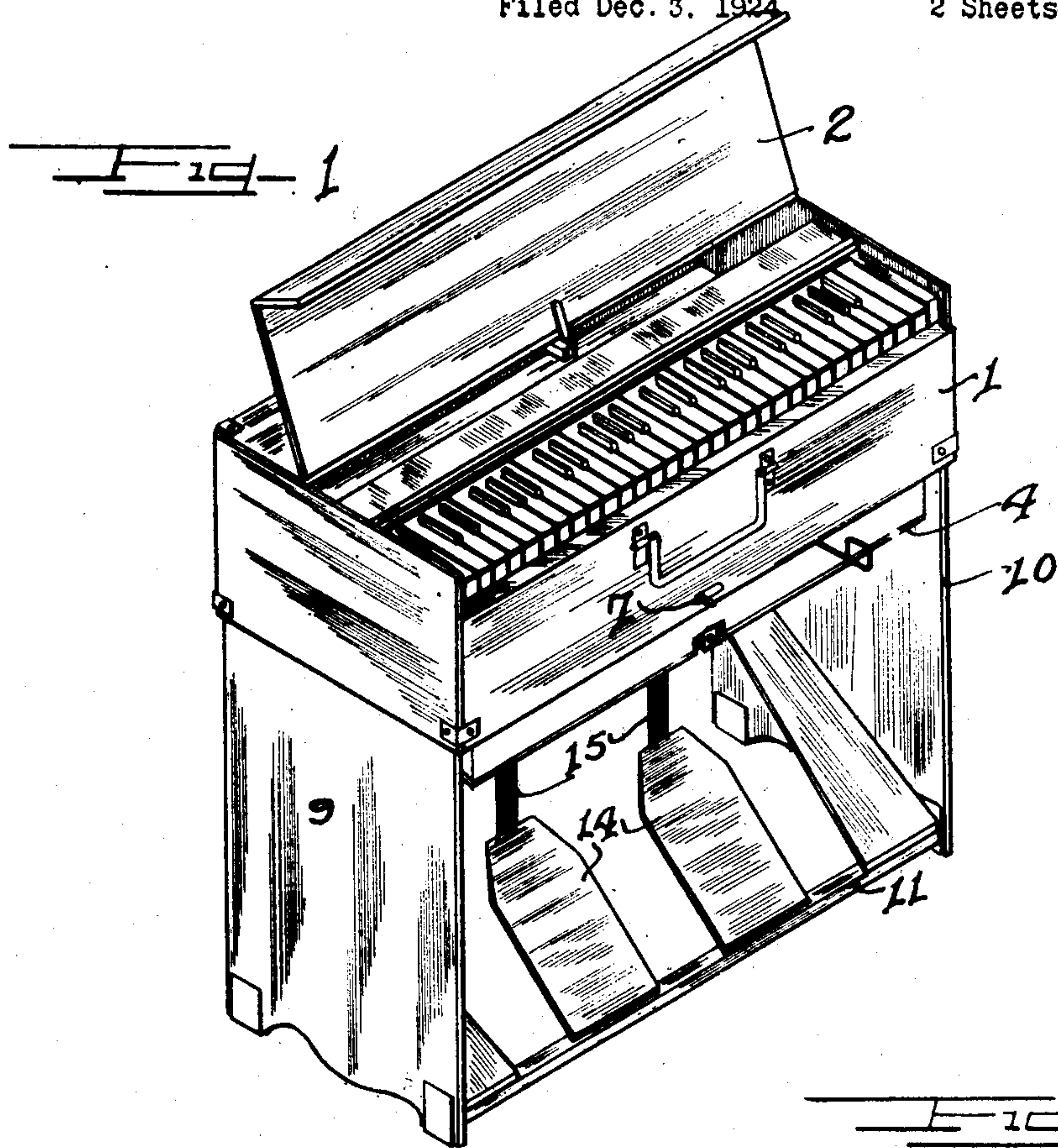
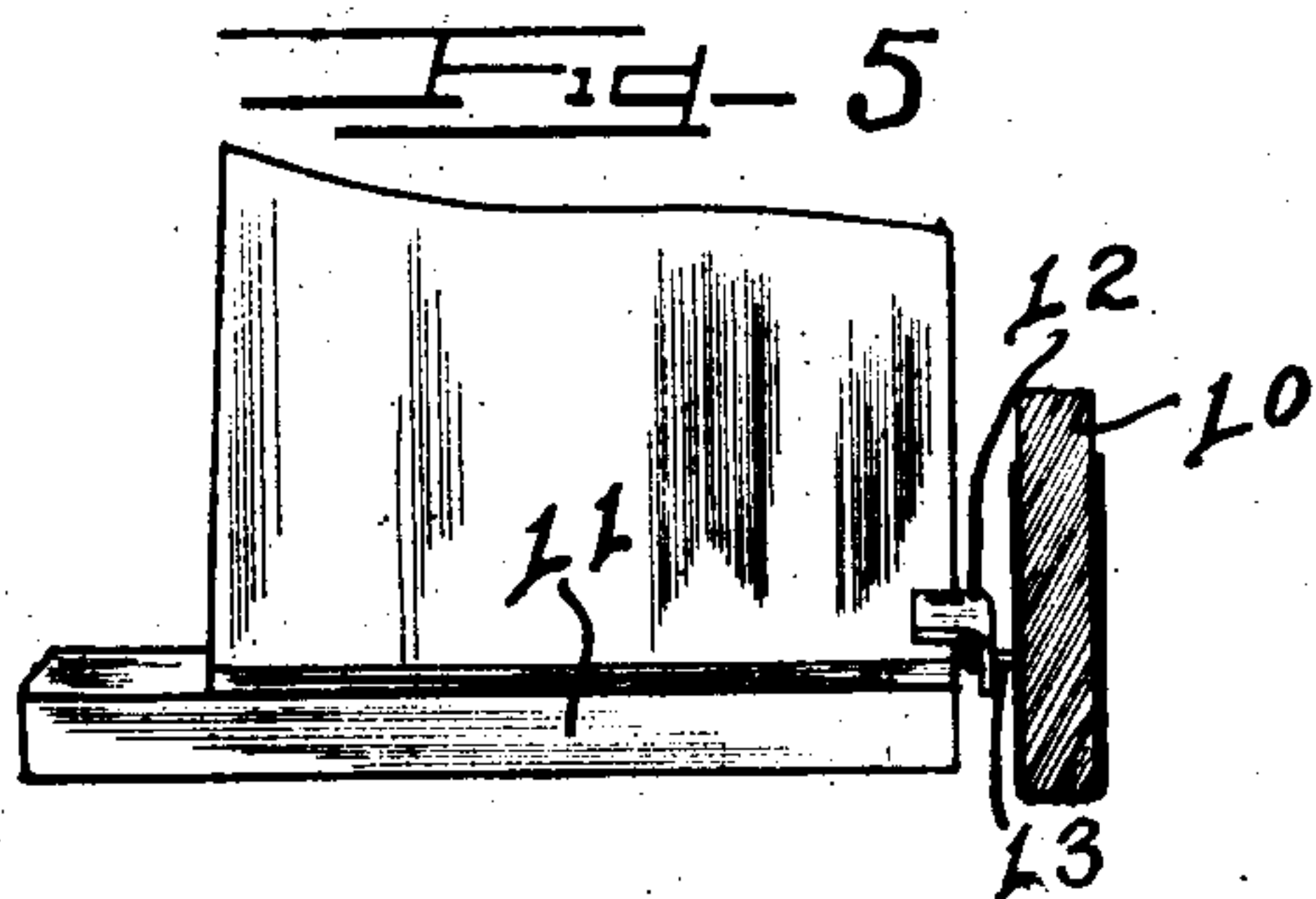
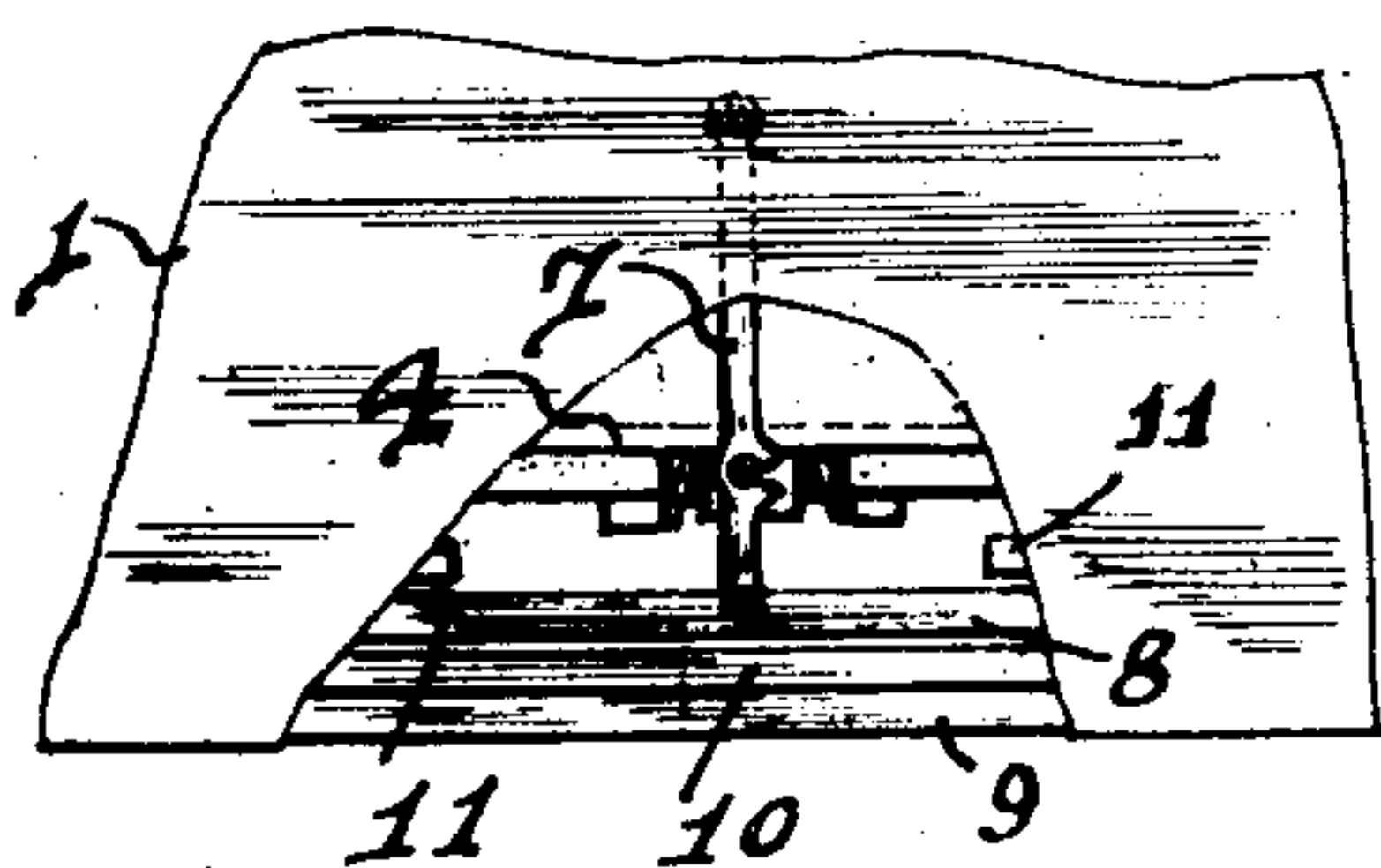
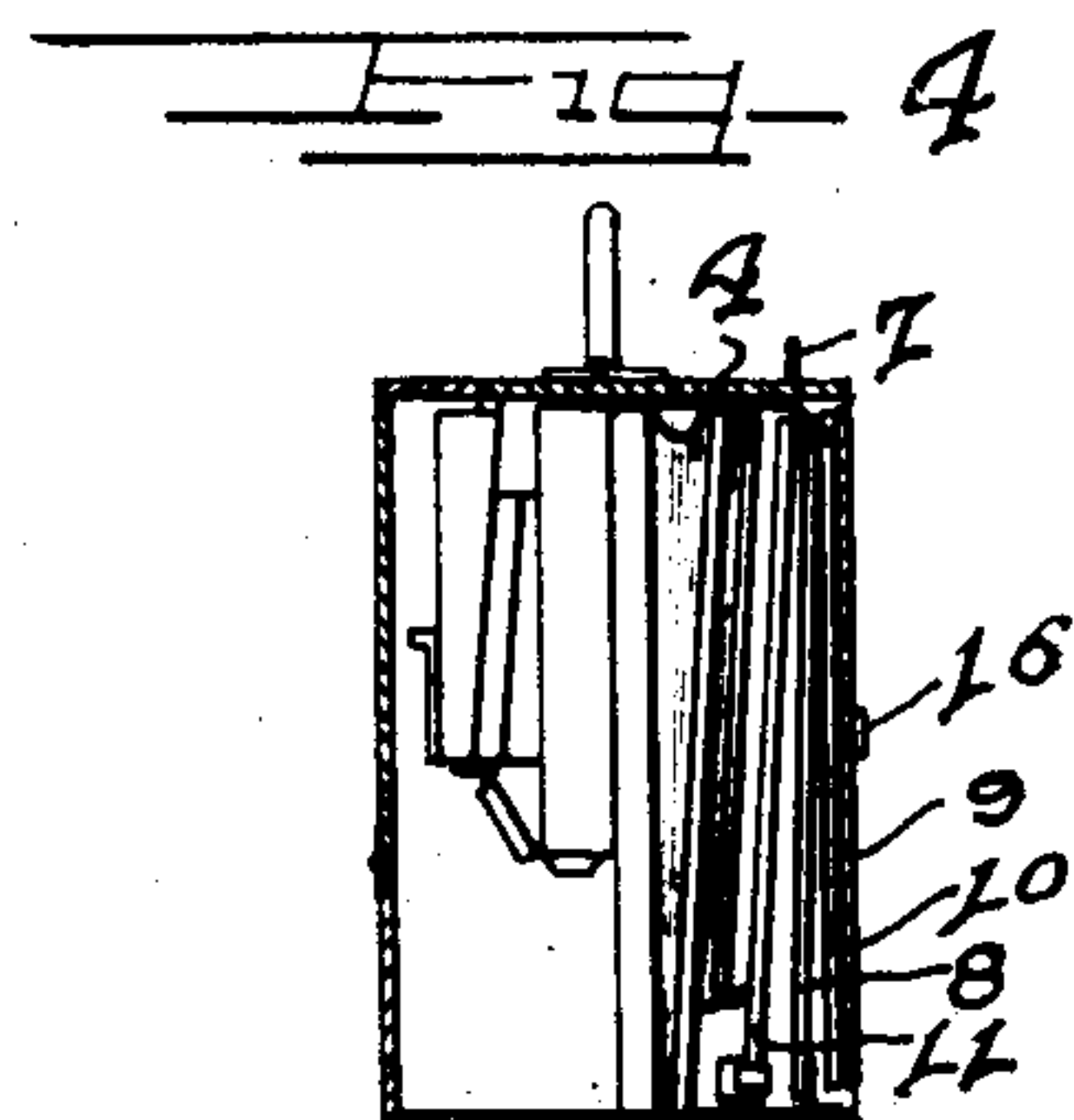


Fig. 6



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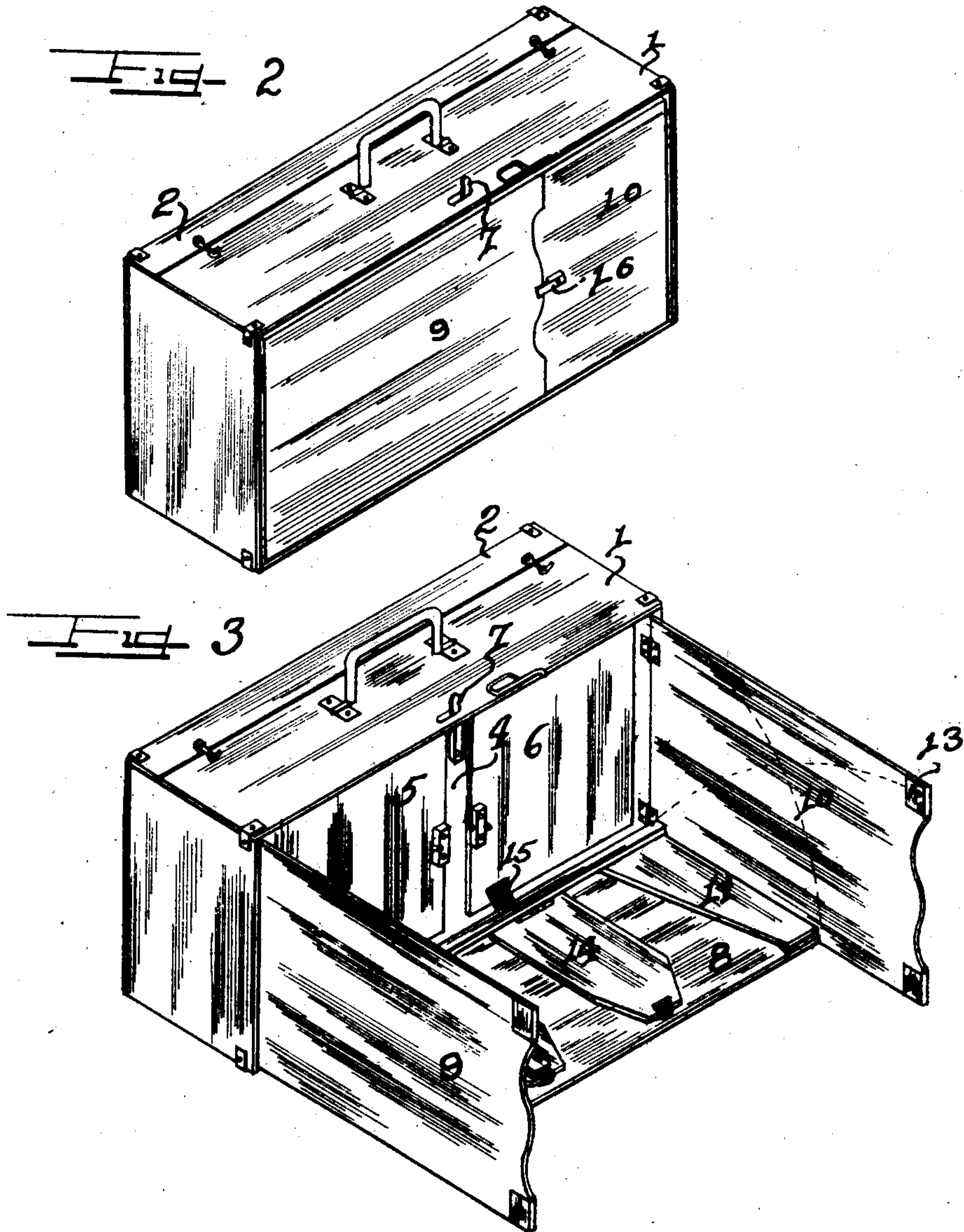
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FOLDING ORGAN

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2 Sheets-Sheet 2.



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UNITED STATES PATENT OFFICE.

PETER P. BILHORN, OF CHICAGO, ILLINOIS.

FOLDING ORGAN.

Application filed December 3, 1924. Serial No. 753,578.

This invention relates to folding organs and more particularly to the kind in which the stand and mechanism for operating the bellows are adapted to be unfolded from the organ and placed in position for operation, and has for its object the provision of a compact, simple, and easily operated organ which may be quickly unfolded into operating position or folded into position for carrying. It is a further important object of this invention to provide a device of this kind which has a maximum of rigidity with a minimum of parts.

With the above and other objects in view as will be apparent, this invention consists in the construction, combination and arrangement of parts all as hereinafter more fully described, claimed and illustrated in the accompanying drawing.

On the drawings:

Figure 1 is a perspective view showing the organ in unfolded position ready for operation.

Figure 2 is a perspective view showing the organ in folded position ready for being moved about.

Figure 3 is a perspective view showing the supporting stand in unfolded position before the bellows operating mechanism has been unfolded into position.

Figure 4 is a cross-section of Figure 2 showing the parts in folded position.

Figure 5 is a detail view of the catch for securing the engagement between the sides of the stand and a longitudinal member thereof.

Figure 6 is a detail view showing the catch for holding the bellows into folded position.

As shown on the drawings:

Numeral 1 represents an organ case, which has a cover 2 adapted to be turned back as shown in Figure 1 to permit operation of the organ and the emission of the sound therefrom. A usual organ mechanism is contained in the case 1 adapted to produce musical notes in the usual manner. The bellows is similar to that shown in my prior Patent No. 1,152,475, of September 7th, 1915. A frame 4 of the bellows is secured beneath the organ mechanism in the case 1 and is hinged to swing downwardly at the rear edge of said bellows. The bellows comprises the pumping members 5 and 6 which are hinged to swing downwardly from the forward end of the frame 4 and are pro-

vided with springs for normally holding said members upwardly against the frame 4. A downwardly depending catch 7 as shown in Figure 6 is provided in the casing 1 and is adapted to be operated from the outside thereof for catching the frame 4 of the bellows and holding it in folded position in said casing. Hinged within the bottom of the case 1 beneath the bellows is a longitudinal member 8 which is adapted to open downwardly along the rear edge of said bottom as shown in Figure 3. Also hinged within the bottom of the case 1 beneath the bellows are transverse stand members 9 and 10 which are adapted to open downwardly along the side edges of said bottom and when folded are adapted to fold over the longitudinal member 8 in the case 1. The longitudinal member 8 is adapted when swung downward as shown in said Figure 3 to fit between the stand members 9 and 10 and hold the latter outwardly. Suitable catch members are provided at the lower corners of the member 8 which are adapted to engage with adjacent catch members on the side members 9 and 10 for holding said members from going beyond the vertical position and for making the stand more rigid.

Hinged at the lower edge of longitudinal member 8 as shown in Figure 3 is a frame member 11 which is adapted to swing downwardly along said edge into the position shown in Figure 1. Depending flanges 12 (Figure 5) similar to the catch members referred to on the longitudinal member 8 are provided at the forward outer corners of the frame 11 for engagement with staple members 13 on sides 9 and 10, similar to the aforementioned catch members on said sides for securing said frame 11 to said sides 9 and 10. Hinged on the forward edge of frame 11 as shown in Figure 1 are pedals 14 which are connected to the pump members 5 and 6 of the bellows by means of straps 15 and are adapted to actuate said bellows.

In preparing the organ for transportation the frame 4 of the bellows is moved upward from the position shown in Figure 1 to the position shown in Figure 3 and caught by the catch 7. The frame 11 is then folded upwardly from the position shown in said Figure 1 to the position shown in Figure 3. The cover 2 is closed and secured. The longitudinal member 8 is folded into the casing 1 and the stand members 10 and 9 respec-

tively are folded thereover and caught by a catch 16.

It will be seen that a compact folding organ is provided in which a minimum of parts are used for a maximum amount of ruggedness and rigidity.

It will also be evident that the organ is simple and sure of operation.

I am aware that many changes may be made, and numerous details of construction may be varied through a wide range without departing from the principles of this invention, and I therefore do not purpose limiting the patent granted hereon, otherwise than necessitated by the prior art.

I claim as my invention:—

1. A folding organ, comprising a case, a bellows therein, leg members hinged in overlapping relation within said case and adapted to be swung downwardly from the sides thereof, a supporting member also hinged to said case and adapted to be swung downwardly from the rear thereof, said supporting member being connected to, and bracing said leg members in the open position, and forming a cover for said leg members in the folded position, a frame member adapted to be unfolded forwardly from said supporting member, and pedal members hinged to said frame member and adapted to actuate said bellows.

2. A folding organ, comprising a case, a bellows therein, leg members hinged in overlapping relation within said case and adapted to be swung downwardly from the sides thereof, a supporting member also hinged to said case and adapted to be swung downwardly from the rear thereof, said supporting member being connected to, and bracing said leg members in the open position, and forming a cover for said leg members in the folded position, a frame member adapted to be unfolded forwardly from said supporting member, catch members on said frame member to engage the forward portions of the leg members in the open position, and pedal members hinged to the front of said frame member and adapted to actu-

ate said bellows, all of said members being adapted to be folded into said case for transportation.

3. A folding organ, comprising a case, a bellows therein, leg panels hinged in overlapping relation within said case and adapted to be swung downwardly from the sides thereof, a supporting member also hinged to said case and adapted to be swung downwardly from the rear thereof for bracing said leg panels, catch members on said supporting member for engaging the rear portions of said leg panels, a frame member adapted to be unfolded forwardly from said supporting member, catch members on said frame member for engaging the forward portions of said leg panels, and pedal members hinged to the front of said frame member and adapted to actuate said bellows, the said supporting member forming a closure for said case and a cover for said leg panels when the organ is folded for transportation.

4. A folding organ comprising a case, a bellows therein, flat leg panels hinged in overlapping relation within the opposite ends of the case, and swingable downwardly and laterally in the open position, a case bottom closure panel overlying the leg panels in the folded position and swingable downwardly and rearwardly, means connecting the sides of the said closure panel in the open position to the rear edges of the leg panels whereby to brace the latter, a pedal frame hinged to the free edge of the said closure panel for disposition flatwise against the inner face thereof in the folded position, and swingable downwardly and forwardly therefrom in the open position, means connecting the forward side portions of said pedal frame to the lower forward edges of the leg panels, and pedals hingedly supported on said frame and having flexible connections with the bellows.

In testimony whereof I have hereunto subscribed my name.

PETER P. BILHORN.