

F. L. CAULKINS & F. WIENAND.
FOLDING ORGAN.

APPLICATION FILED OCT. 12, 1908.

931,678.

Patented Aug. 17, 1909.

2 SHEETS—SHEET 1.

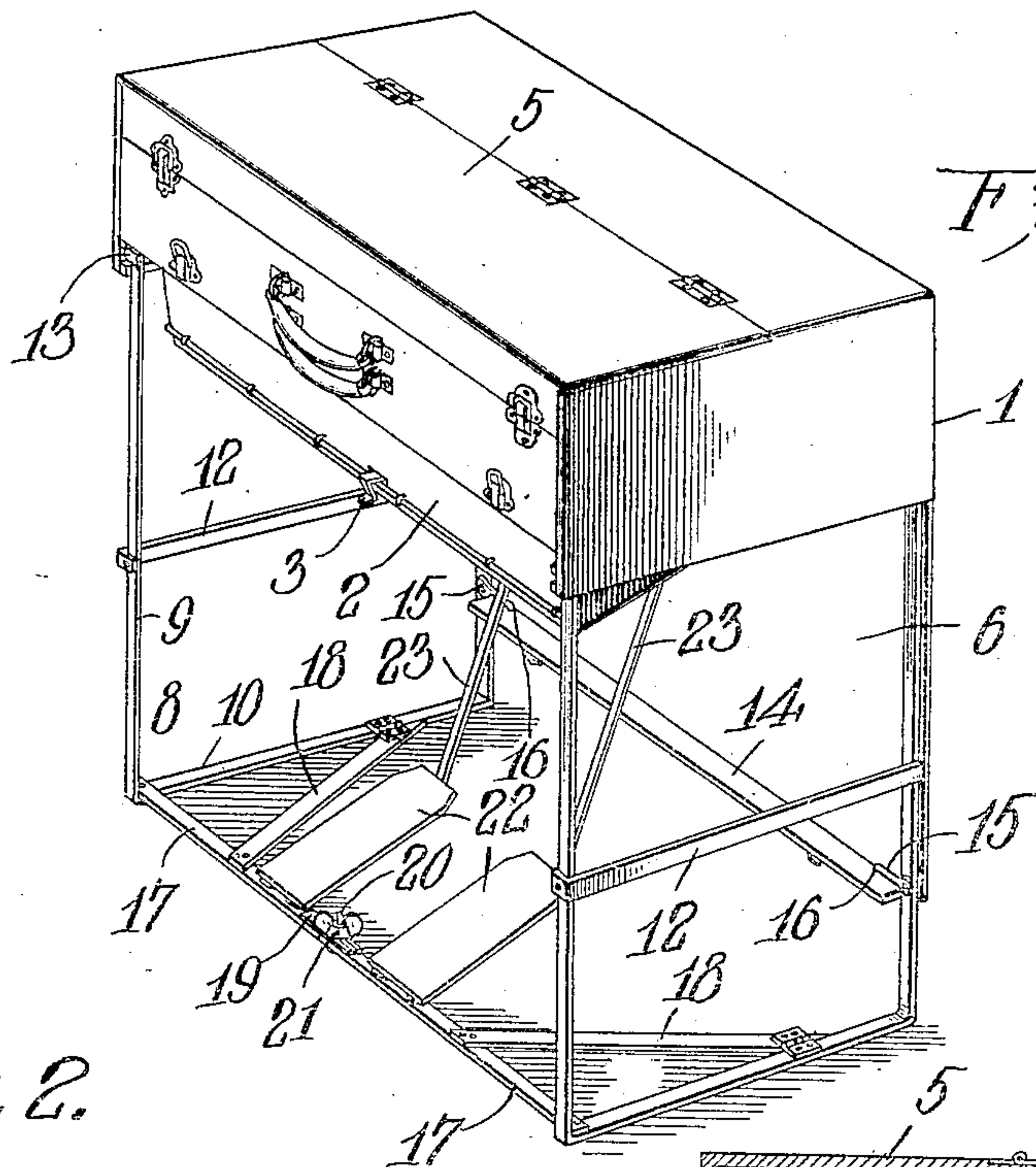
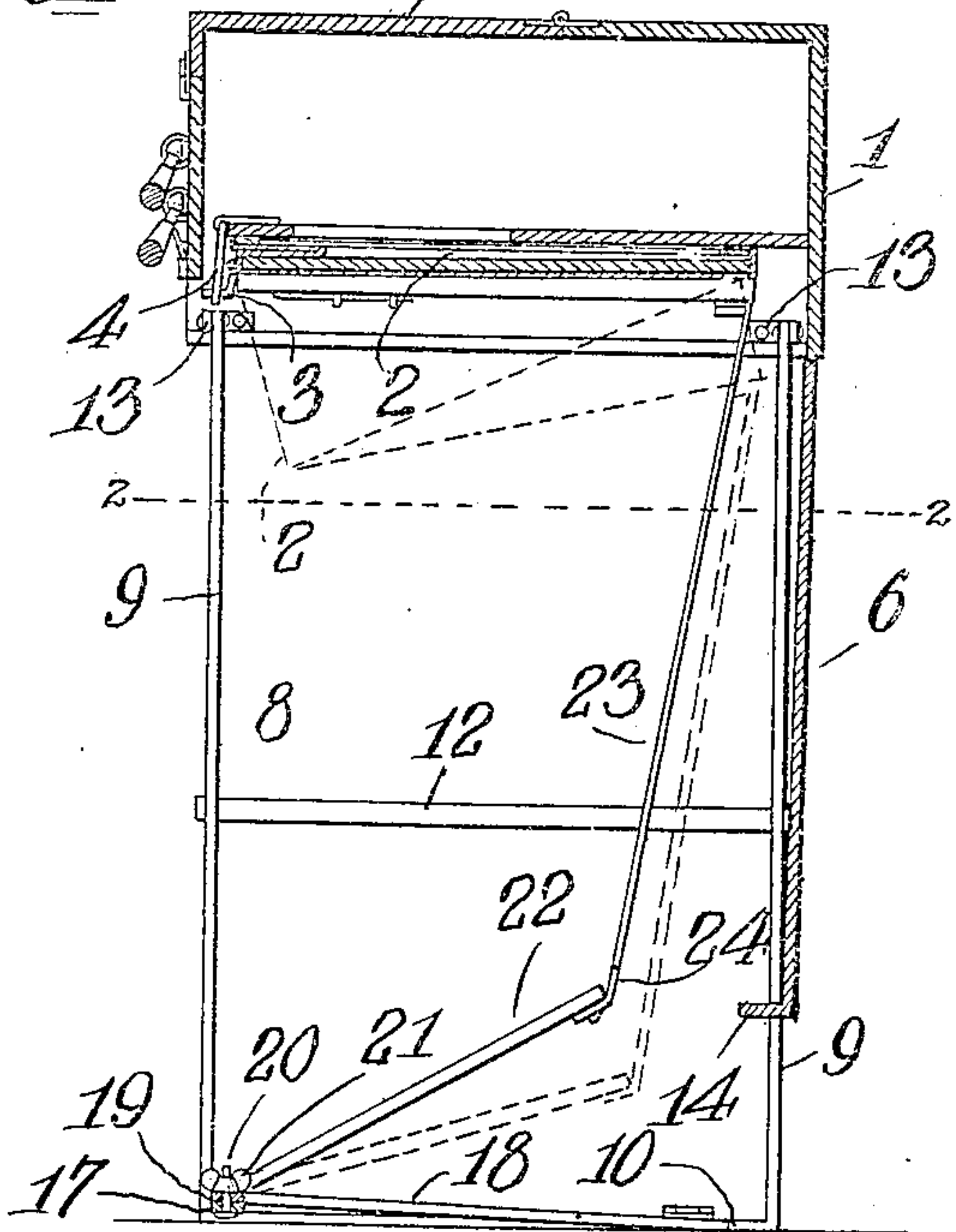
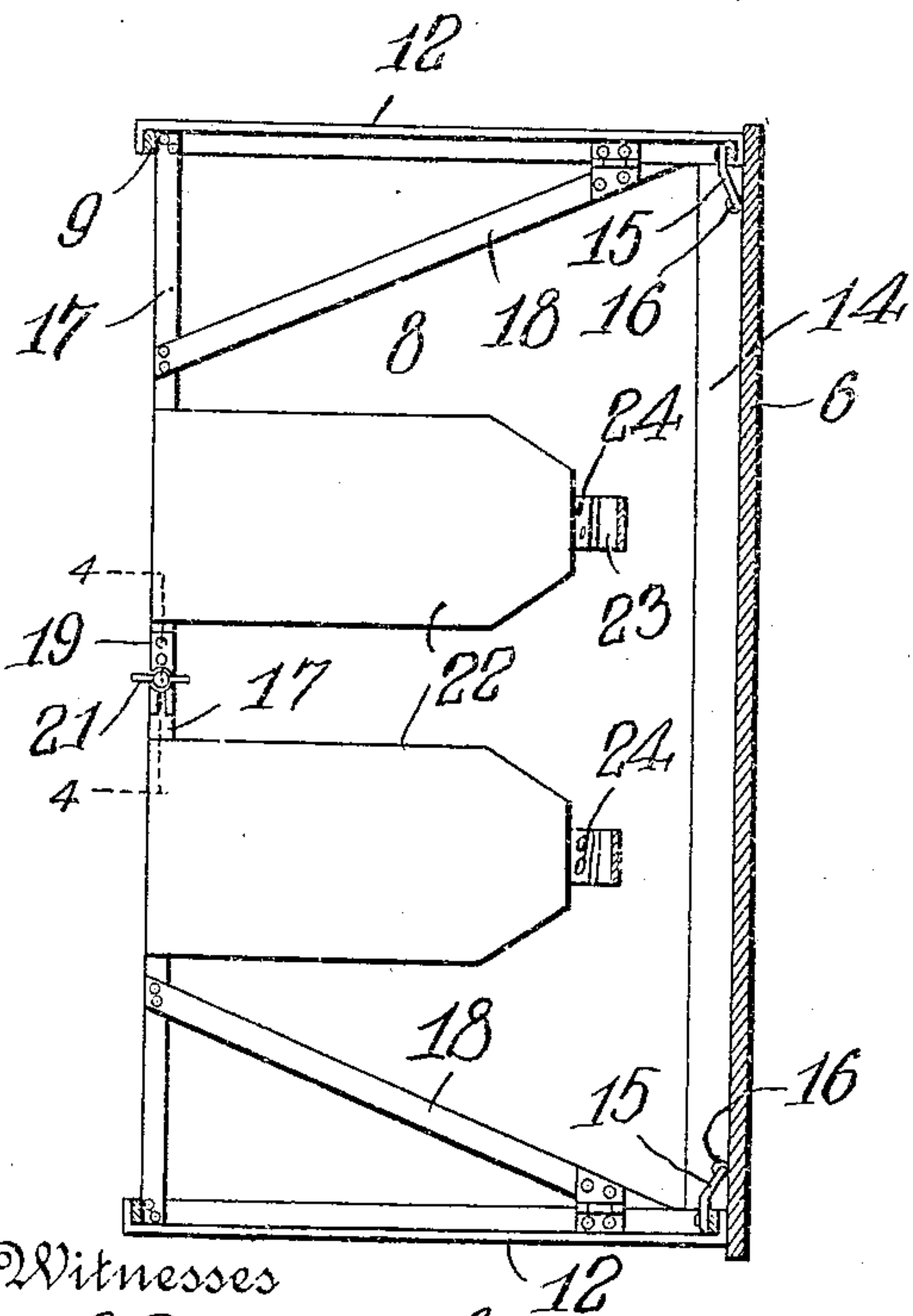


Fig. 1.

Fig. 2.

Fig. 3.



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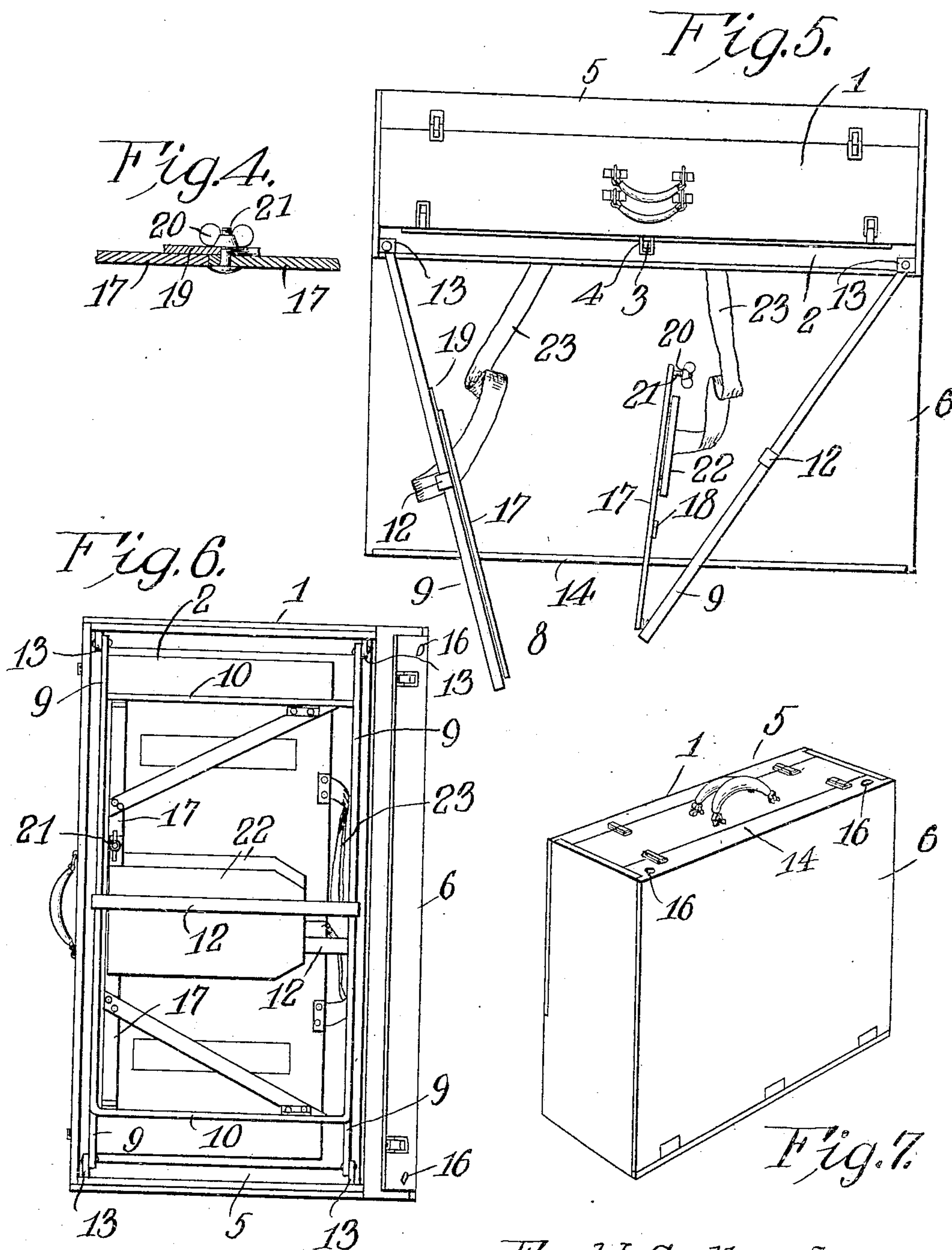
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UNITED STATES PATENT OFFICE.

FRANK L. CAULKINS AND FRED WIENAND, OF CHICAGO, ILLINOIS.

FOLDING ORGAN.

No. 931,678.

Specification of Letters Patent.

Patented Aug. 17, 1909.

Application filed October 12, 1908. Serial No. 457,377.

To all whom it may concern:

Be it known that we, FRANK L. CAULKINS and FRED WIENAND, citizens of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Folding Organs; and we do 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 use the same.

This invention relates to improvements in folding organ cases.

The object of the invention is to provide an organ case having hinged supporting legs and pedal bars adapted to be folded up and inclosed within the case so that the latter may be readily carried from one place to another.

A further object is to provide a device of this character having means whereby when the legs are in an open position, and the case set up for use, said legs will be firmly braced and held in an operative position.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be described and particularly pointed out in the appended claims.

In the accompanying drawing, Figure 1 is a perspective view of the case showing the same open and set up in position for use; Fig. 2 is a horizontal sectional view on line 2—2 of Fig. 3; Fig. 3 is a central vertical sectional view showing the manner in which the air reservoir is held up in a retracted position to permit the legs to be folded into the case, the air reservoir and pedal supporting bar being shown in an operative position in dotted lines; Fig. 4 is a detail sectional view on the line 4—4 of Fig. 2; Fig. 5 is a front elevation showing the manner of folding the legs and pedal bars; Fig. 6 is a bottom plan view of the case showing the legs and pedals folded therein; and Fig. 7 is a perspective view of the case after the parts are folded and the case closed.

Referring more particularly to the drawings, 1 denotes the body portion of the case, in which are arranged the bellows and the air reservoir, the organ action, and the keys, the latter parts not being shown, as they form no part of the present invention. The air reservoir 2 and the bellows are arranged

in the lower portion of the body, 1, and said air reservoir is adapted to be retracted into the casing and held in a retracted position by means of a catch comprising a right-angularly formed lug, 3, on the forward edge of the reservoir and a pivoted bail, 4, secured to the adjacent side of the casing. When the reservoir is in a retracted position, the lug, 3, is engaged with the bail, 4, thereby holding these parts in an inoperative position, and retracted into the case to a sufficient extent to provide space in which the supporting legs and pedal bars are adapted to be folded.

One side, 5, of the case is hingedly secured to the body portion of the case containing the organ action and the keys. The side 5 is adapted to be opened up to provide access to these parts and when in a closed position, is secured by suitable catches. The opposite side, 6, is also hinged to the body portion of the case, and when in a closed position is adapted to cover the air reservoir and bellows, and also the supporting legs and pedal bars when in a folded position. When the sides, 6 and 5, are closed, the case may be readily carried from place to place by means of suitable handles, which are secured to one side of the body portion as clearly shown in Fig. 7 of the drawing.

The supporting legs 8 comprise open frames consisting of side bars 9 which are connected at their lower ends by a cross bar 10 and intermediate their ends by a cross bar, 12. The leg frames are preferably formed of flat metal bars bent into the shape shown and the upper ends of said bars are hingedly connected to right-angularly formed legs, 13, which are bolted to the inner side of the opposite ends of the case adjacent to the front and rear sides of the same, as shown. By thus hingedly securing the leg frames to the case, said frames may be swung inwardly to a folded position against the air reservoir, and in position to be covered by the hinged side, 6. When in an open position and the case set up for use, the legs are braced and held open by the engagement of the same with a right-angular strip, or flange, 14, formed on the outer edge of the side piece, 6. When said side piece is in an open position, the same forms a backboard for the organ supporting mechanism. The rear side bar of each of the leg frames is pro-

vided with a pivoted hook, 15, which, when the leg frames are in an operative position, is engaged with a socket, 16, formed in the flange, 14, of the side piece, 6, said hooks thereby holding the leg frames against lateral movement or spreading.

Hingedly connected to the lower cross bars 10 of each of the leg frames are pedal supporting bars, 17, to which are connected the outer ends of diagonal brace bars 18, the opposite ends of which are hingedly connected to the cross bar 10 adjacent to the rear side of the frame. The length of the pedal bars 17 is such that when the leg frames are in an operative position, the said ends will abut or engage with each other, and when in this position are secured by a locking device comprising a notched plate, 19, which is secured to the upper side of one of the bars, 17, and projects beyond the same in position to overlap the opposing end of the other pedal bar. The notched end of the plate 19 when overlapping the adjacent pedal bar is engaged with a threaded stud or bolt, 20, secured to the opposing pedal bar, and on said threaded stud or bolt is secured a thumb nut 21. The nut when screwed inwardly on the bolt 20 engages the notched end of the plate 19 and clamps the latter against the pedal bar, thus rigidly securing the ends of the pedal bars together. When the pedal bars are thus secured together, they serve as a brace, which, together with the ends of the flange, 14, on the side piece 6, and the hooks, 15, on the leg frame bars, securely hold said leg frames in an open position to firmly support the case. Hingedly connected to each of the pedal bars adjacent to their inner meeting ends are pedals, 22, the inner ends of which are connected by flexible straps, 23, to the bellows of the air reservoir. The ends of the straps are preferably secured to the pedals by means of hinged bails, 24, to which said ends of the straps are pinned or otherwise detachably connected.

It will be seen that the supporting frames or legs herein shown and described are extremely simple in construction and by reason of the manner in which the frames are braced when in an open position, they form a strong, durable support for the casing. It will also be noted that when the supporting frames are opened out to an operative position and locked, said frames cannot be casually folded or moved so that all danger of the case falling or dropping after being set up is obviated. The simple construction of the supporting frames and the pedal mechanism enables these parts to be folded into a very small space in one side of the case so that the greater part of the latter may be employed for holding the works of the organ. The arrangement of the supporting frames and the manner in which they are connected to

the case is such that they may be quickly opened out into position for use or folded up into position for closing the case.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of our invention as defined in the appended claims.

Having thus described our invention, what we claim as new and desire to secure by Letters-Patent, is:

1. In a folding organ, a case, a pair of leg frames hingedly connected at their upper ends to the opposite ends of the case whereby said frames are adapted to fold into the case, a pair of bars hingedly connected to said leg frames and adapted to fold against the same, and pedals hingedly connected to said bars.

2. In a folding organ, a case, a pair of leg frames hingedly connected at their upper ends to the opposite ends of the case, bars hingedly connected to the lower ends of said leg frames to fold thereon, and means to lock the ends of said bars together to an operative position whereby said bars form a brace for said leg frames.

3. In a folding organ, a case, a pair of leg frames hingedly connected at their upper ends to the opposite ends of said case, a retractable air reservoir adapted to be drawn into said case to provide space for said leg frames when in folded position, means to hold said reservoir in a retracted position, a bar hinged to each of said leg frames, a threaded stud on the end of one of said bars, a notched plate on the end of the opposite bar to engage said bolt when said bars are in operative position, a clamping nut on said stud whereby said parts are clamped together to form a brace for the front side of the leg frame, and means whereby the rear sides of said frames are braced.

4. A folding organ case having hinged sides, one of which when opened forms a backboard, leg frames hinged to said case, a flange on said backboard to engage said leg frames and hold the same in open position, fastening devices on said frames to engage sockets in said flange whereby the rear sides of said leg frames are braced and fastened in an operative position, folding pedal bars hinged to said leg frames, and pedals hingedly connected to said bars.

5. A folding organ case having hinged sides, one of which when opened forms a backboard, a pair of leg frames hinged to and adapted to be folded into said case and inclosed by the side forming the backboard,

said leg frames comprising front and rear side bars, a lower cross bar and an intermediate cross bar, means on said backboard to brace and hold said leg frames in an open position, pedal supporting bars hinged to said leg frames, hinged brace bars connected to said pedal bars, and means to lock the ends of said pedal bars together to form a brace for said leg frames.

In testimony whereof we have hereunto set our hands in presence of two subscribing witnesses.

FRANK L. CAULKINS.
FRED WIENAND.

Witnesses:

ARCHER MELVILLE,
FLOYD S. HANSOM.