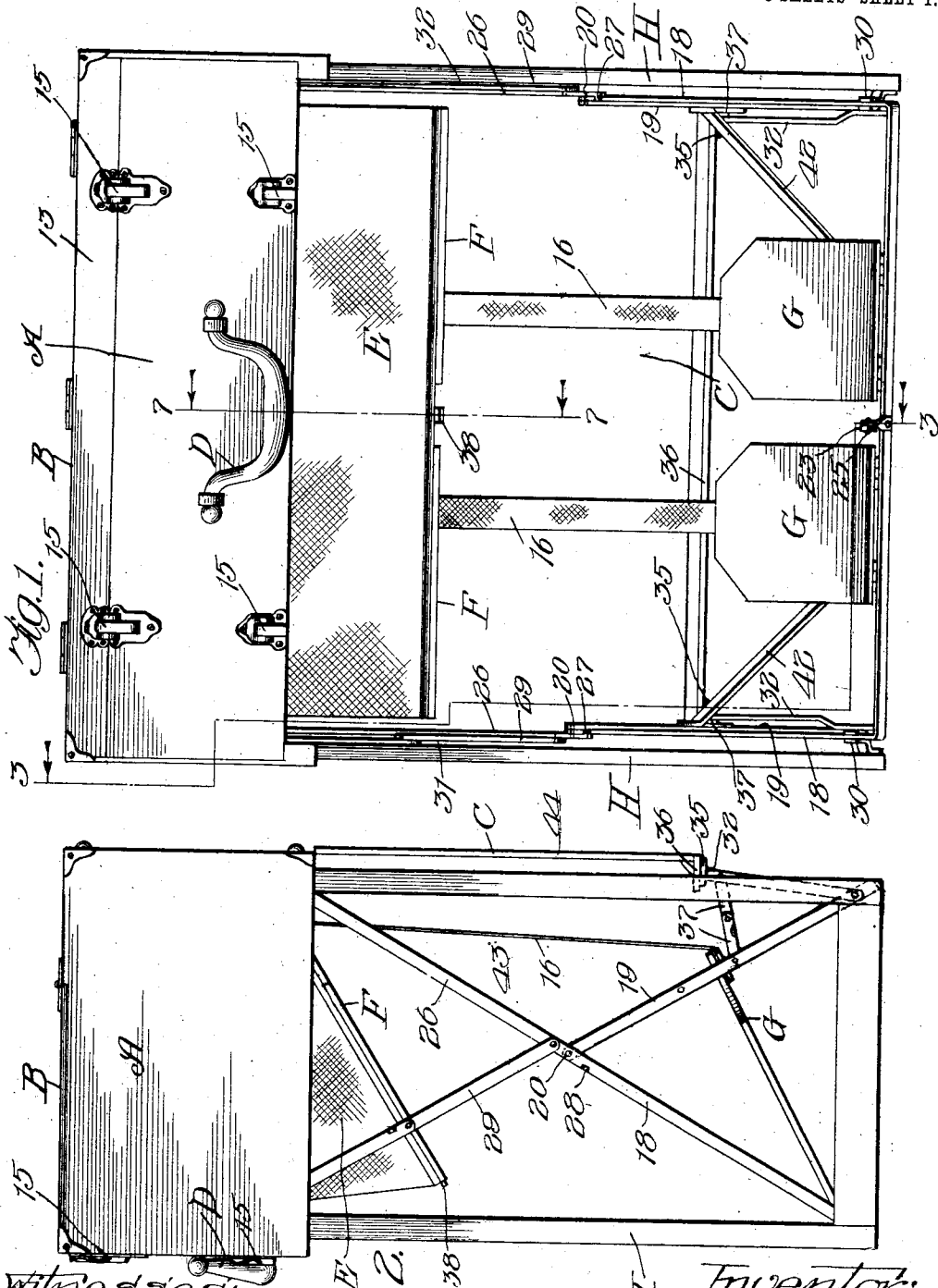


H. FABER.
FOLDING ORGAN.
APPLICATION FILED NOV. 3, 1908.

944,483.

Patented Dec. 28, 1909.

3 SHEETS—SHEET 1.



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Fig. 2.

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3 SHEETS—SHEET 2.

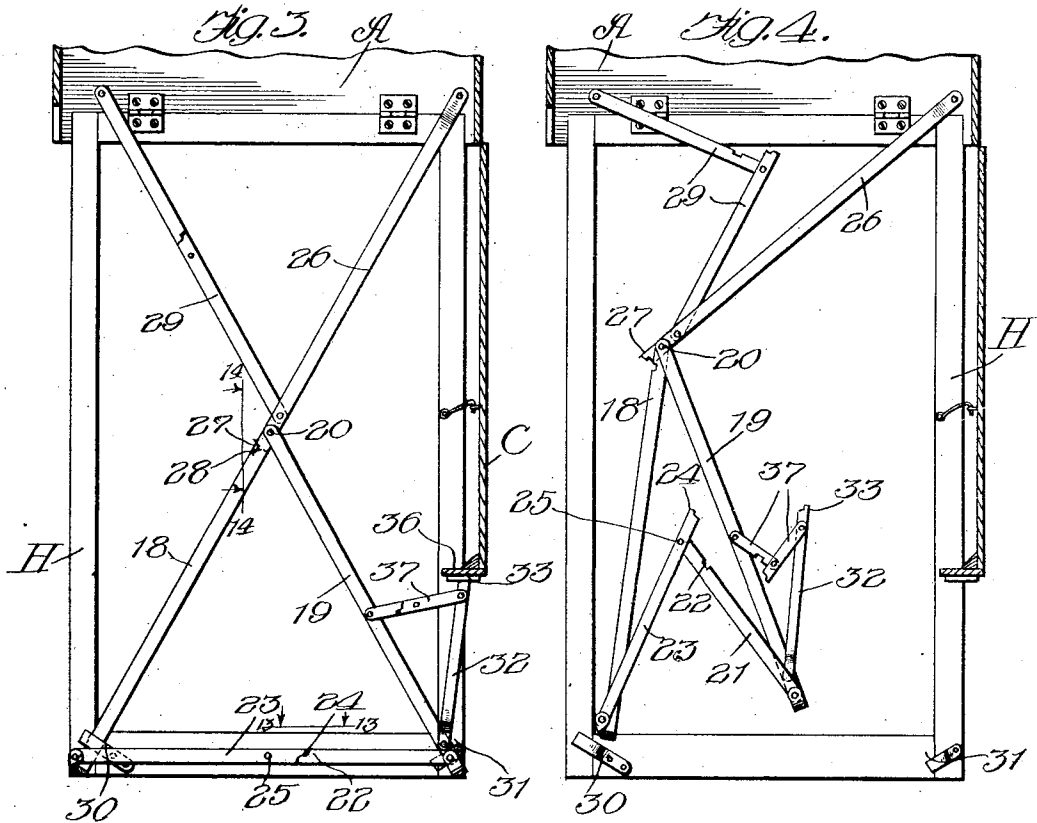


Fig. 13.

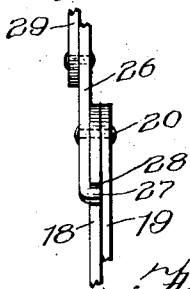


Fig. 5.

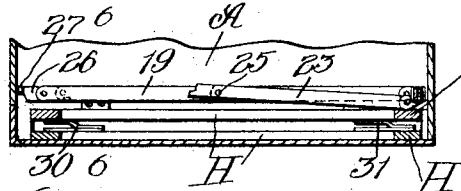


Fig. 14.

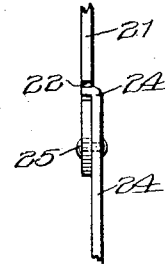
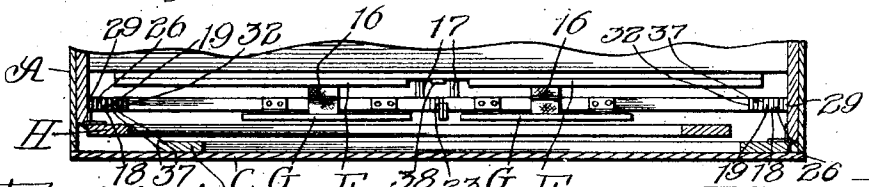


Fig. 6.



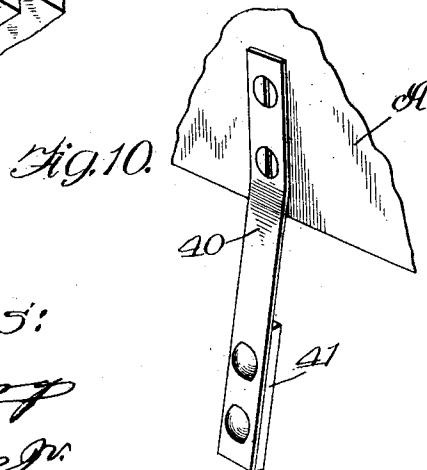
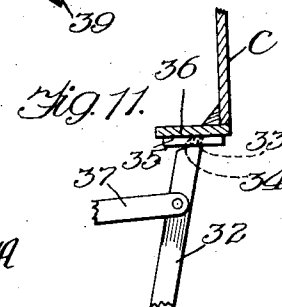
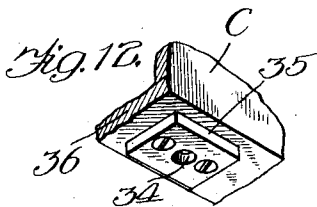
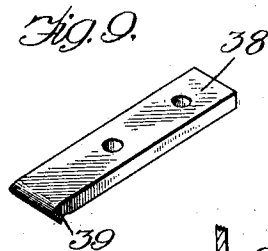
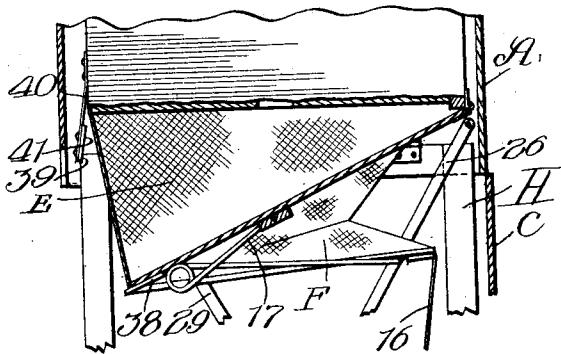
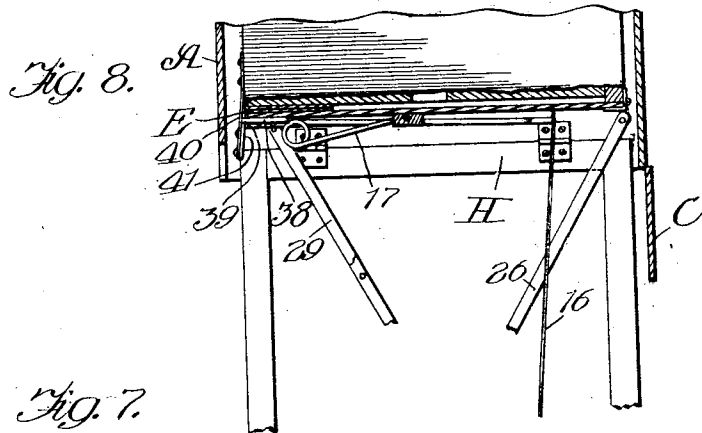
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UNITED STATES PATENT OFFICE.

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FOLDING ORGAN.

944,483.

Specification of Letters Patent.

Patented Dec. 28, 1909.

Application filed November 3, 1908. Serial No. 460,970.

To all whom it may concern:

Be it known that I, HOMO FABER, a citizen 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, of which the following is a specification.

My invention relates to a case and a collapsible stand or supporting device for the same.

The object of the invention is to provide for a case such as the suit-case type a supporting device or stand which will form a strong and rigid support for the case, but which may be collapsed without the detachment of its parts, so as to lie inside the case.

The folding stand of my invention is here shown as forming a part of a portable or so called suit-case organ and it is one of the principal objects of my invention to provide for the case of such an organ a strong, collapsible stand which will fold within the case when not in use. It is obvious that the device might be used in other connections where it is desirable to provide a suit-case or the like with a collapsible support or stand.

Another object of my invention is to provide a portable organ with a folding or collapsible frame to which the pedals may be attached.

Another object of the invention is to provide an organ of this sort with a combined stand and pedal frame which fold together within the case when not in use and when extended are so connected and interlocked as to hold each other in proper position.

A further object of the invention is to provide a case with a hinged cover and with a collapsible stand which, when extended, is held in locked relation with the cover and, when collapsed, lies within the case under the cover.

The invention has for further objects such new and useful devices, constructions and improvements in collapsible stands for cases and in suit-case organs as will be described in the following specification and particularly set forth in the claims appended thereto.

The invention, in one embodiment, is illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation of a suit-case

organ supported upon the stand of my invention. Fig. 2 is an end elevation of the same. Fig. 3 is a sectional elevation on the line 3—3 of Fig. 1, looking in the direction of the arrows, omitting, however, the pedals and their straps. Fig. 4 is a sectional elevation taken on the same line, but showing some of the parts partially collapsed. Fig. 5 is a cross-sectional view through one end of the case showing the stand folded under the hinged cover. Fig. 6 is a similar view taken at right angles to the plane of Fig. 5. Fig. 7 is a sectional elevation on line 7—7 of Fig. 1, looking in the direction of the arrows. Fig. 8 is a similar view on the same line, but with the bellows collapsed. Figs. 9 and 10 are details in perspective of the bellows latch. Figs. 11 and 12 are details illustrating the engagement between the stand and the hinged cover. Fig. 13 is an enlarged front view of a portion of the supporting stand at one side of the case; and Fig. 14 is a detail of one of the knuckle joint bars.

Like characters of reference indicate like parts in the several figures of the drawings.

A represents a case of the suit-case type, which, in this instance, contains the various devices, not illustrated in detail, constituting a portable organ. Case A has the upper hinged cover B, which is held closed by snap latches 15, 15, of any desired type, and the lower hinged cover C. A handle D may be provided.

E represents the reservoir bellows and F, F a pair of pumping bellows which are connected with the pedals G, G, respectively, by the straps 16. The bellows E and F, when collapsed, lie within case A under cover C. A spring 17 tends to collapse the pumping bellows F, F against the reservoir bellows E. These arrangements are well known in their operation and will not be further described. The case may be provided with the hinged side supports or legs H, H, which are hinged to the interior of the casing underneath cover C and are just alike, consisting of rectangular frames, except that the leg H at one side of the case is longer and is pivoted higher up in the case than on the other, as shown in Fig. 6. The case is also provided with a collapsible supporting

frame, made up of pivoted links, which interlock with the legs, when the latter are employed, or which may be used without the legs to support the case and which, besides supporting the case, affords means upon which the pedals G, G may be mounted. This collapsible supporting frame is made up preferably of the following parts: 18, 19 are two frames with their ends pivoted together at 20, 20 and adapted to be held in extended position by means of a folding bar having a knuckle joint. This bar consists of the link 21 having a notch 22, and the link 23 provided with a lug 24 extending into the notch, the links being pivoted at 25. The frames are attached to the case by means of rigid bars 26, 26, which are pivoted to the inside of the case and to the ends of the frames by their pivots 20, 20. these bars having a knuckle joint with the frame 18. The construction at one of these connecting points is shown in Figs. 3, 4 and 13, bar 26 being provided with a perpendicular lug 27 extending into a slot 28 in the frame 18. 29, 29 are knuckle joint bars connecting bars 26, 26 with the case. When the legs H, H are employed, these legs may be provided with the clips 30, 30, into which the frames 18 lock, and also, if desired, the clips 31, 31 to receive the frames 19. The pedals G, G are hinged to the horizontal bar of frame 18. This horizontal bar may be termed the pedal supporting bar and, as it is shown, is integral with the side bars of frame 18; although it is not essential that this should be the case.

I preferably provide means for locking the supporting frame-work to the hinged cover. To this end links 32, 32 are pivoted to the frame 19, these links terminating in points 33, which extend into the perforations 34 in socket plates 35 on the rim 36 of cover C. Knuckle joint bars 37 connect links 32 with frame 19.

Frame 18 and bars 26 constitute a folding frame work for supporting the pedals and, when the legs H, H are employed, this pedal frame-work interlocks with the legs, so that all these devices are held in their proper relationship. The frame 19 and the folding bars 29, with links 32, folding bars 37 and cover C, taken together with the pedal supporting frame 18, 26, constitute a combined folding stand and pedal support which may be used with or without the legs H, H.

When the case and stand of my invention are used for a folding organ, I prefer to provide a latch for holding the bellows in collapsed, folded position under the cover C. This device consists of a plate 38 attached to the under side of bellows E, provided with a curved end 39 and a leaf spring 40 within the case provided with a block 41 which the end of plate 38 engages. When

the parts are in the position shown in Figs. 1, 2 and 7, the reservoir bellows E may be exhausted by operating the pedals in the familiar way and engagement made between the plate 38 and the upper end of block 41 by bending spring 40 inwardly, block 41 normally standing a trifle out of the path of the end of the plate. The bellows may be released, after the stand and pedals have been unfolded, by a slight pressure on the pedals, this causing the bellows E to be still further exhausted, which releases spring 40.

If desired, frames 18 or 19 may be reinforced by braces. I have shown frame 19 as provided with the diagonal struts 42, 42.

When the legs H, H are used, they abut against the ends of the rim 36 of cover C when unfolded, as is clear from Figs. 2, 3 and 4. The folding devices within the legs, by their engagement with clips 30, 31, draw the legs against the rim 36, which thus serves as a brace. If desired, the legs may be provided with the hooks 43, which engage with the loops 44 on the inside of the cover.

The various devices for supporting the case and the pedals, together with the pedals themselves, may be folded up so as to lie within the case under cover C, in the manner shown in Figs. 4, 5, 6 and 8. The bellows are first exhausted and latched in folded position, as shown in Fig. 8. The jointed bars between frames 18 and 19, between bars 26 and the casing and between the frame 19 and links 32 are flexed, as shown in Fig. 4. Links 32 and their braces may then be folded parallel with the upright members of the frame 19 and the frame 19 folded within the frame 18. Then, by folding the parts at the pivots 20, the frame-work may be collapsed so as to lie along three sides of the case under cover C, the pedals lying flat on bellows F, F. When the legs H, H are used in addition to the other supports, these may be folded over one on the other, as indicated in Figs. 5 and 6. Cover C folds down over the whole, so that the organ and its stand is collapsed into the form of an ordinary suit-case without the detachment or removal of any of the parts of the stand and without detaching the pedals. When the organ is set up again, these steps are reversed. Links 32 are fitted into their sockets in the cover C, the bending out of the knuckle joint bars locking the various parts of the stand in rigid position.

I do not limit myself to the devices, constructions and arrangements shown and described, as modifications might be devised which would come within the spirit of my invention as defined by the claims. As has been suggested, certain parts of the combined stand and pedal support might be omitted which would, of course, result in a saving in weight and in bulk, but with, to a

certain extent, a loss of the strength and rigidity which is given by the combined use of all the parts shown.

I claim:

1. The combination with the case of a folding organ having a hinged cover, of a collapsible stand to support the case comprising links pivoted together, which stand folds under the cover and interlocks with the same when it is unfolded.

2. The combination with the case of a folding organ having a hinged cover, of a collapsible stand to support the case comprising a set of pivoted links at each end of the case which fold up so as to lie parallel with each other and which engage with the cover when unfolded, and connections between said sets of links.

3. The combination with the case of a folding organ having a hinged cover, of a collapsible stand to support the case comprising a set of pivoted links at each end of the case which fold up so as to lie parallel with each other, and cross pieces connecting the same which lie parallel with each other when folded, said stand engaging with the cover when unfolded.

4. The combination with the case of a folding organ having a hinged cover, of a socket on said cover, and a collapsible stand to support the case having a projecting part which extends into said socket.

5. The combination with the case of a folding organ having a hinged cover, of a socket on said cover, a collapsible stand to support the case having a projecting part which extends into said socket, and a jointed bar for locking said projecting part in the socket.

6. The combination with the case of a folding organ, of a collapsible stand, a socket on the case, a link on the stand, and means for locking the link in said socket.

7. The combination with the case of a folding organ, of a collapsible stand comprising a pair of frames pivoted together, foldable means for connecting said frames to the case, and means for locking said frames in their unfolded position.

8. The combination with the case of a folding organ, of a collapsible stand comprising a pair of frames pivoted together and foldable one within the other, foldable means connecting said frames to the case, and means for locking said frames in their unfolded position.

9. The combination with the case of a folding organ, of a collapsible stand comprising a pair of frames connected together, and foldable means for connecting them with the case, said means comprising a pair of jointed bars adapted to lock said foldable means in unfolded position.

10. The combination with the case of a folding organ having a hinged cover, of a

collapsible stand comprising a pair of frames connected together and to the case, and a link pivoted to one of said frames and adapted to engage the cover.

11. The combination with the case of a folding organ having a hinged cover, of a collapsible stand comprising a pair of frames connected together and to the case, a link pivoted to one of said frames and adapted to engage the cover, and a jointed bar to lock said link in engagement with the cover.

12. The combination with the case of a folding organ, of a pair of frames, a jointed bar to lock said frames in unfolded position, rigid bars pivotally connecting the frames with the case, and jointed bars connecting the rigid bars with the case.

13. The combination with the case of a folding organ, of a pair of frames, a jointed bar to lock said frames in unfolded position, rigid bars pivotally connecting the frames with the case, jointed bars connecting the rigid bars with the case, a hinged cover on the case, and links connected with the frames which engage with the cover when unfolded.

14. The combination with the case of a folding organ, of a pair of frames pivoted together, rigid bars pivoted at the same point, also pivoted to the case and making a knuckle joint with one of said frames, jointed bars connecting the rigid bars with the case, and means for locking said frames in extended position.

15. The combination with the case of a folding organ, of a pair of frames pivoted together, rigid bars pivoted at the same point, also pivoted to the case and making a knuckle joint with one of said frames, jointed bars connecting the rigid bars with the case, means for locking said frames in extended position, a hinged cover on the case, and means for locking said frames to said cover.

16. The combination with the case of a folding organ, legs hinged at opposite ends of the case, and a collapsible frame consisting of a plurality of connected parts which fold together, which frame engages with the legs when unfolded.

17. The combination with the case of a folding organ, of legs hinged to opposite ends of the case, and a collapsible frame consisting of a plurality of connected parts which fold together, which frame lies within and folds under the legs, and engages with the legs when unfolded.

18. The combination with the case of a folding organ, of legs hinged to opposite ends of the case, a collapsible frame, and clips on the inside of said legs with which the collapsible frame engages when unfolded.

19. A folding organ, comprising a case, pedals, supports for the case, and a folding frame for the pedals which folds independent-

ently of said supports and engages with said supports when unfolded.

20. A folding organ, comprising a case, supports hinged to the ends of the case, a folding pedal supporting frame which folds independently of the supports and engages with the same when unfolded, and pedals hinged to said frame.

21. A folding organ, comprising a case, supports hinged to the ends of the case, pedals, and means for supporting the same comprising a foldable frame to which said pedals are hinged, members connecting said frame to the case, and means for engaging the frame with the hinged supports when it is unfolded.

22. A folding organ, comprising a case, pedals, a folding pedal supporting device, supports hinged to the case, and clips on the inside of said supports with which said pedal supporting device engages when it is unfolded.

23. A folding organ, comprising a case, hinged supports at the end of the case, a folding cover having a rim against which the supports abut, and a folding frame work to support the pedals which engages the hinged supports when it is unfolded.

24. A folding organ, comprising a case, pedals, a hinged cover for the case, folding supports for the case which engage with the cover when unfolded, and a folding support for the pedals which folds independently of the folding case supports and which engages with said supports for the case.

25. A folding organ, comprising a case, folding supports for the same, pedals and

collapsible supporting means for the pedals which collapses independently of the folding supports and which engages the supports when it is in extended position.

26. A folding organ comprising a case, supports for the same hinged to opposite ends of the case in combination with the pedal frame 18, the members 26 which connect the frame with the case and means for engaging the frame 18 with said hinged supports.

27. A folding organ comprising a case, folding supports to support the case, pedals and a frame on which the pedals are hinged, which frame is hinged to the case near the lower rear edge of the same, considering the organ as set up, and which folds independently of the supports for the case and so that it lies within the case.

28. A folding organ comprising a case, folding supports at each end of the case to support the case, pedals, a pedal supporting bar said folding supports folding independently of said bar and means for attaching said bar to the folding supports of the case.

29. A folding organ comprising a case, supports at the ends of the case which are hinged thereto, pedals, a pedal supporting bar to which said pedals are hinged, and means at the lower forward corners of said folding supports for attaching said bar to said folding supports.

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