My invention relates generally to folding canopies and cabinet structures. It is the object of my invention to provide a folding or collapsible structure suitable for temporary or emergency use as a dressing-room on the stage or in the wings of a theater. A further object of my invention is to provide a light and substantial structure of the character above indicated, which will be folded or collapsed by the hoisting of the same from the stage, and which will be automatically expanded and made ready for use by merely lowering the same from the flies in which it is stored when not in use. More particular objects of my invention relate to the detailed structure of the mechanism, and will be more fully set forth hereinafter.

In the accompanying drawings Fig. 1 is a perspective front view of a structure embodying my invention, the fabric or flexible covering being omitted to more clearly show the frame and operating portions of the structure, Fig. 2 is a detail plan view of one of the upper rear corners of the frame structure, Fig. 3 is a side view of the same, Fig. 4 is a detail plan view of one of the upper front corners of the frame structure, Fig. 5 is a side view of the same, Fig. 6 is a detail horizontal section taken through one of the rear uprights above the lower horizontal frame-members, Fig. 7 is a detail side view of the same portion of the structure, Fig. 8 is a detail horizontal section taken through one of the front uprights above the lower horizontal frame-members, Fig. 9 is a side view showing the folding brace, Fig. 10 is a detail elevation from the inside of the frame, showing one of the hanger-rails, Fig. 11 is a diagrammatic horizontal section showing varying positions of one of the hanger-rails, Fig. 12 is a detail showing in plan one end of the cosmetic-table, Fig. 13 is a detail vertical section on the line 13—13 of Fig. 12, Fig. 14 is a diagrammatic side view of the frame structure showing folded, hoisted and extended positions thereof, and Fig. 15 is a perspective view of the complete structure including the flexible fabric covering for the framework.

In carrying out my invention I provide a folding or collapsible framework, made throughout of metal, the longer members of the frame structure being rolled steel angle-bars which provide a maximum of strength and rigidity proportional to their weight. In its extended formation the metal framework is rectangular and approximately cubical in shape. In the front and rear portions of the frame the structural members are rigidly connected with each other, and the longitudinal side-members are pivotally connected with the rigid end-portions.

The rear end portion of the frame comprises a pair of uprights 20 and 21, an upper transverse bar 22 and a lower transverse bar 23, the upper transverse member 22 being rigidly connected with the uprights by means of angle-pieces 24, and the lower transverse member 23 being rigidly connected with the uprights by angle-pieces 25, said angle-pieces being secured to the uprights and transverse members by suitable rivets, as best shown in Figs. 2 and 6.

The front end portion of the frame comprises a pair of uprights 26 and 27, and an upper transverse bar 28, the latter being rigidly connected with the uprights by angle-pieces 29 and suitable rivets, as best shown in Fig. 4, and further connected by diagonally extending brace-bars 30, as shown in Fig. 1.

Between the upper corners of the front and rear frame portions are extended the upper longitudinal bars or members 31 and 32, of which the rear ends are connected pivotally with the angle-pieces 24, to swing about horizontal axes as shown in Figs. 2 and 3, and the front ends being similarly connected pivotally with the angle-pieces 29, as shown in Figs. 4 and 5. Lower longitudinal members 33 and 34 are arranged at the level of the transverse member 23, and are pivotally connected at their rear ends with the angle-pieces 25, to be swingable about horizontal axes, as shown in Figs. 6 and 7. The front ends of the lower longitudinal members 33 and 34 are similarly connected with bracket-plates 35 which are secured to the front uprights 26 and 27, as best shown in Figs. 8 and 9.

The longitudinal members 33 and 34 are
further connected with the front uprights 26 and 27 by means of the folding braces shown in detail in Figs. 8 and 9. Each of said folding braces comprises a pair of flat bars 36 and 37 having overlapping end portions pivotally connected with each other by a pin 38, the bar 36 having a laterally turned lug 39 adapted to enter a notch 40 in the edge of the bar 37 when the bars are in the aligned relation shown by full lines in Fig. 9. The upper ends of the bars 36 are pivotally connected with the longitudinal frame-members 33 and 34, and the lower ends of the bars 37 are similarly connected with the bracket-plates 41 secured to the front uprights 26 and 27. At the full-line position shown in Fig. 9, the brace is rigid and serves to prevent folding movement of the member 33 relative to the upright 26, but if the pivotally connected ends of the brace-members are pushed upwardly so as to be out of line with the end-pivots of the brace, the same may be folded to the position shown by dotted lines in said Fig. 9, simultaneously with the corresponding downward swinging movement of the member 33 about its pivotal connection with the bracket-plate 35.

The cosmetic-table 42 extends horizontally between the frame-members 33 and 34 adjoining the lower transverse member 28 of the rear portion of the frame, to which the table is connected by means of hinges 43. At each end of the table, near its front edge, a lip or lug 44 is secured on the upper side thereof and rests slidably upon the adjacent horizontal frame-member 33 or 34, as shown in Figs. 1 and 12.

Parallel vertical wires or tension-members 45 are extended between the rear transverse members 22 and 23, above the cosmetic-table, and serve to support the mirror 46 in the position shown in Fig. 1, where it is convenient for the use of a person standing or seated in front of said table.

The hanger-rails 47 and 48 are disposed normally to extend horizontally beneath the upper longitudinal members 31 and 32, the rear ends of said rails being connected with hinge-plates 49 on the rear uprights 20 and 21 by means of removable pintelets 50, and the front ends of the rails being connected with hinge-plates 51 on the front uprights 26 and 27. The rail 48 at one side of the frame is disposed at a level slightly above that of the rail 47 at the other side, and each of the front uprights carries an extra hinge-plate with which the rail from the opposite side may be engaged, the plate 52 on the upright 26 being disposed at the level of the rail 48, and the plate 53 on the upright 27 being disposed at the level of the rail 47. Thus, when the removable pintelet 50 is withdrawn from the rear end of the rail 48, said rail may be swung in a horizontal plane about the pivoted front end thereof to a transverse position at which the opposite end is engaged with the plate 52, as represented by dotted lines in Fig. 11, and secured to said plate 52 by inserting the pintelet 50 therein. The rail 47 may be similarly engaged with the plate 53 on the upright 27. Each of the rails 47 and 48 is provided at the inner side thereof with a plurality of garment hooks 54, said hooks extending forwardly when the rails are swung to the transverse position, and the plates 51, 52 and 53 being arranged to extend rearwardly from the uprights 26 and 27, whereby the hooks will not project appreciably beyond the front edges of said uprights, as will be apparent from Fig. 11.

The described frame is inclosed by a covering 55 of flexible fabric such as canvas, extending across the top and about the sides of the frame. At the front the covering is formed by two pieces of the fabric arranged to form flaps 56 which normally hang in overlapping relation, as shown in Fig. 15. At the rear vertical corners the side portions of the covering are detachably connected with the rear portion by means of suitable fasteners 57, which may be disconnected when the structure is to be folded or collapsed.

In the use of the described structure as a temporary dressing-room on the stage or in the wings of a theater, the same is preferably disposed with its rear side adjoining a wall W as shown in Fig. 14, and hoisting-lines 58 are connected with the front upper corners of the frame and extended therefrom inclinedly upward and rearward, as shown. The users enter and leave the dressing-room by passing between the overlapped edges of the flaps 56. When the dressing-room is not in use it is hoisted into the flies by means of the lines 58, after first loosening the fasteners 57, "breaking" upwardly the folding braces 30—37, and swinging the hanger-rails 47 and 48 to engage the plates 52 and 53, as above described. As tension is placed upon the lines 58, the front portion of the frame is first lifted from the floor, while the longitudinal members 31—34 swing to inclined positions as shown by dotted lines in Fig. 14, and the rear portion of the frame continues to rest upon the floor. When the rearward and upward folding or collapsing of the structure is substantially completed, so that the longitudinal members are in approximate parallelism with the uprights, the tension upon the hoisting-lines lifts the folded structure to the desired storage position in the flies, where it may remain suspended until again desired for use. In the folded position of the frame the fabric covering at the sides will hang in folds, but the front, top and rear portions of the coverings will remain as in the extended formation. When the structure is lowered until the rear legs or uprights 20 and 21 engage the floor, the longitudinal members automatically swing forward until the front
uprights also rest upon the floor. Then the hanger-rails are disconnected from the plates 52 and 53 and re-engaged with the rear plates 49, the brace-members 38 and 37 are pressed into their rigid aligned position, and the fasteners 57 are connected to close the rear corners of the fabric covering. During the folding and unfolding or re-opening of the structure, the lugs 44 supporting the front portion of the cosmetic-table slide along the members 33 and 34 to accommodate the variations due to non-alignment of the axes of said members with the axes of the hinges 43.

Now, having described my invention, what I claim and desire to secure by Letters Patent of the United States is:

1. In a folding dressing-room for use on the stage of a theater, a metal frame comprising a pair of uprights and a pair of transverse members rigidly connected to form a rear frame-portion, a pair of uprights and a transverse member rigidly connected to form a front frame-portion, and pairs of longitudinal members extending between the front and rear uprights at the upper and intermediate portions thereof and pivotally connected therewith; a flexible fabric covering extending across the top and about the sides of said frame, and hoisting means connected with the front frame-portion and adapted to lift the same while simultaneously folding the longitudinal members into substantial parallelism with the uprights.

2. In a structure as set forth in claim 1, a cosmetic-table extending transversely between the intermediate longitudinal members and hinged to the rear frame-portion, and means on said table slidably engaging said longitudinal members to support the table thereon.

3. A structure as set forth in claim 1, wherein the flexible fabric covering has overlapping flaps at the front side of the frame and detachable fastenings at the corners adjoining the rear uprights.

4. A structure as set forth in claim 1, including folding brace-members connected with and adapted to releasably retain the uprights and longitudinal members in right-angled relations to each other.

5. In a structure as set forth in claim 1, hanger-rails pivoted to the front uprights to swing about vertical axes, means for detachably connecting the opposite ends of said hanger-rails with the rear uprights, and means for detachably connecting each hanger-rail with the opposite upright of the front pair.

6. In a folding dressing-room for use on the stage of a theater, a metal frame comprising pairs of uprights, transverse members rigidly connecting the uprights of each pair to form front and rear frame-portions, longitudinal members pivotally connected at their front and rear ends with the uprights of the front and rear frame-portions, folding brace-members connected with and adapted to releasably retain the uprights and longitudinal members in right-angled relations to each other, hanger-rails pivoted to the uprights of one pair to swing about vertical axes, means for detachably connecting the opposite ends of said rails with the opposite pair of uprights to extend parallel with the longitudinal frame-members, and means for detachably connecting each hanger-rail with the opposite upright of the pair on which the respective rail is pivoted.

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