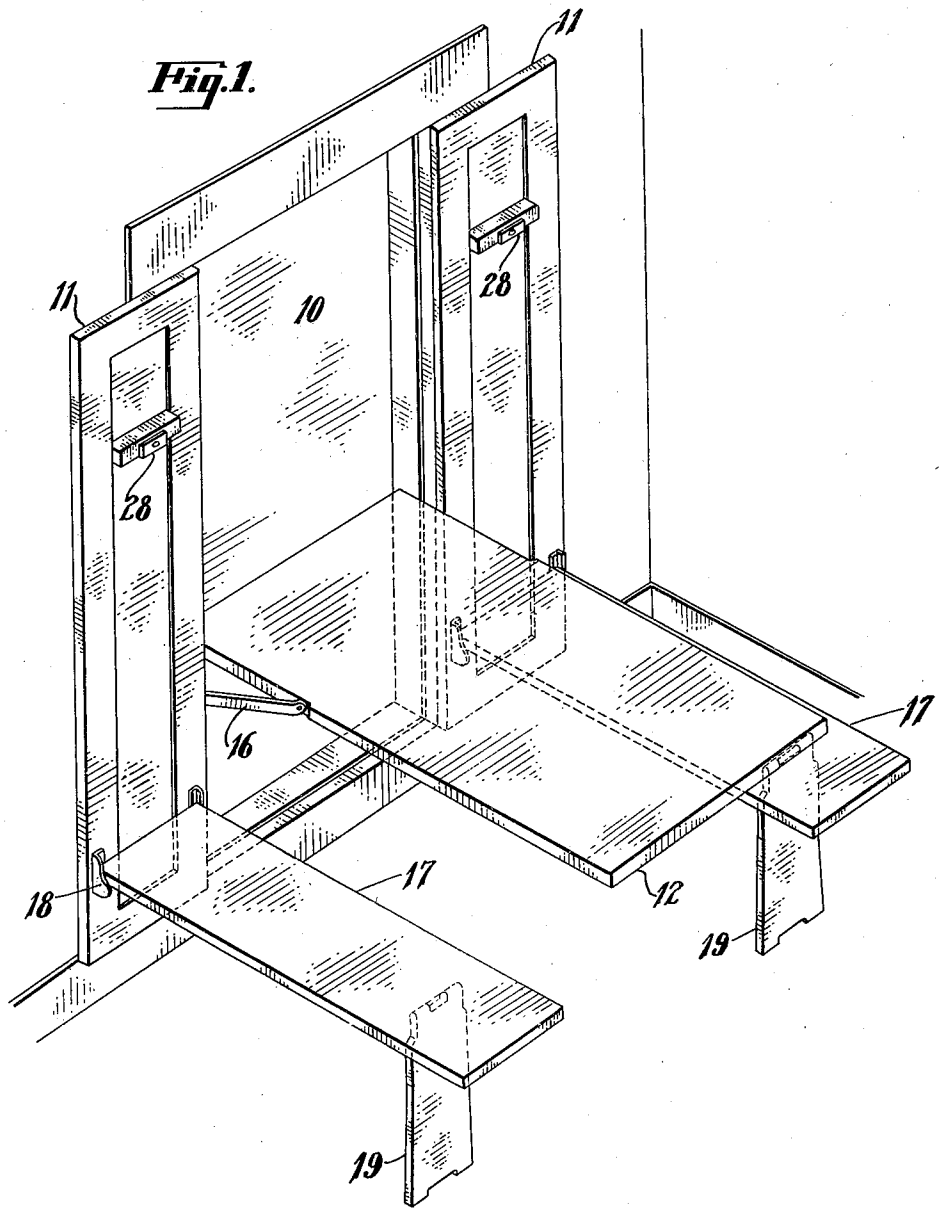
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BUILT-IN FURNACE

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Fig. 1.



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Fig. 2.

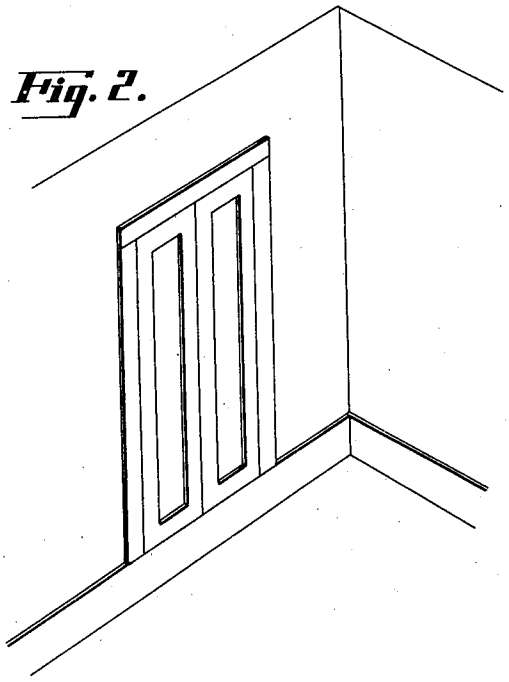


Fig. 3.

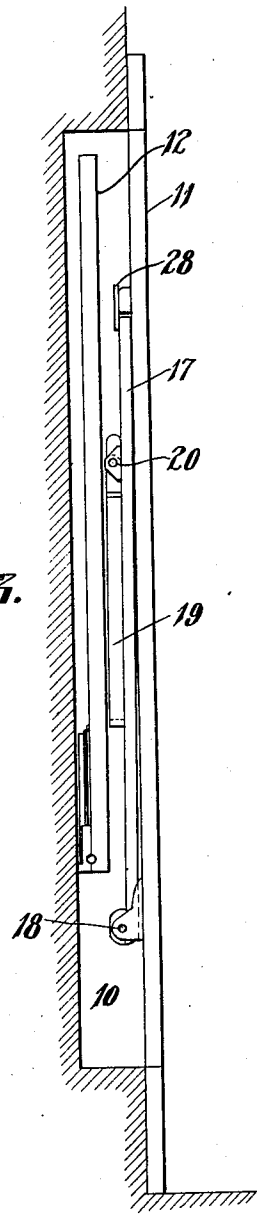
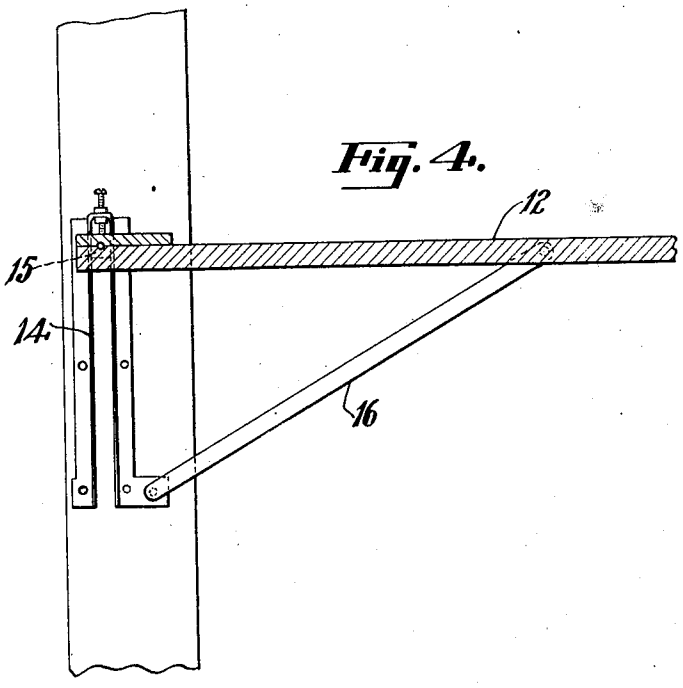


Fig. 4.



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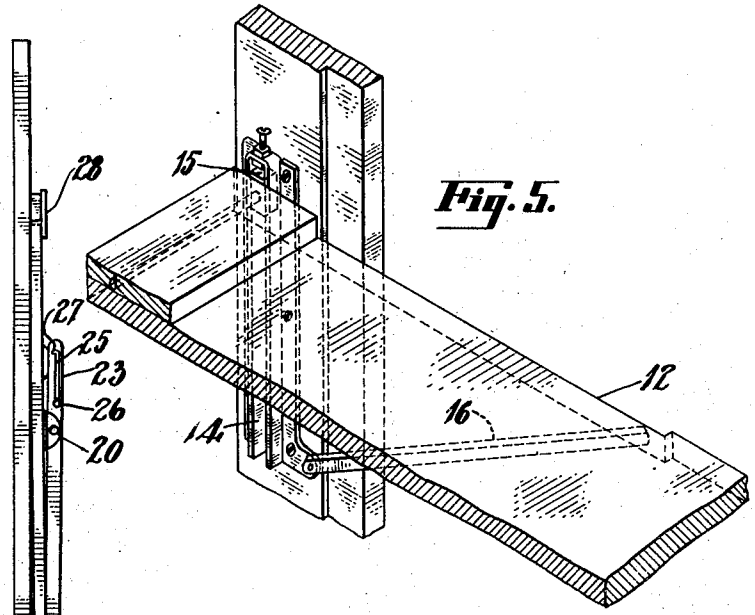
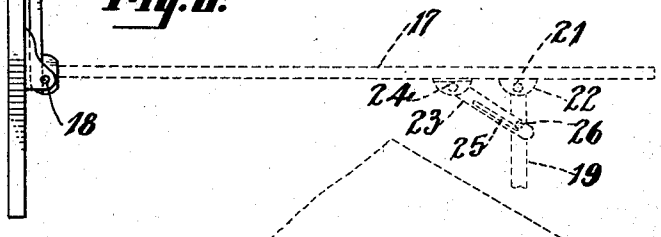


Fig. 5.

Fig. 6.



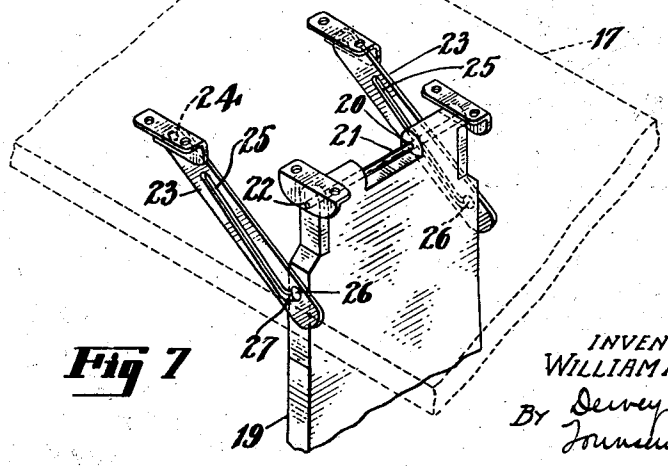


Fig 7

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UNITED STATES PATENT OFFICE

WILLIAM A. NOACK, OF OAKLAND, CALIFORNIA, ASSIGNOR TO CONCEALO FIXTURE COMPANY, INC., A CORPORATION OF NEVADA

BUILT-IN FURNITURE

Application filed December 17, 1923. Serial No. 681,099.

This invention relates to built-in furniture adapted for use in dwellings of limited floor space.

It is the principal object of the present invention to provide a folding table and seats therefor which are assembled in a cabinet in a manner permitting them to be expeditiously extended to correct relative positions for use or to be compactly folded and concealed in the cabinet.

In carrying out this object, I provide a cabinet of the type which may be built in a wall or partition and which is fitted with outwardly and oppositely swinging doors which combine to form a closure for the cabinet. Within the cabinet I arrange a hinged table which may be swung outwardly to extended position. The seats for the table are hinged to the inner surfaces of the doors and are fitted with folding supports so that when the doors are closed the table and seats will be positioned compactly within the cabinet. When the doors are opened the table and seats may be easily and quickly extended to correct relative positions for use.

One form which the invention may assume is exemplified in the following description and illustrated by way of example in the accompanying drawings, in which:

Fig. 1 is a perspective of a device embodying my invention disclosing the table and seats in position for use.

Fig. 2 is a similar view showing the appearance of the cabinet when closed.

Fig. 3 is a vertical transverse section through the cabinet with the table and seats in folded position.

Fig. 4 is an enlarged fragmentary view in section and elevation of the hinge connection between the table and the cabinet.

Fig. 5 is a perspective view of the connection shown in the preceding figure.

Fig. 6 is an enlarged view in end elevation of one of the doors showing the seat folded thereagainst.

Fig. 7 is an enlarged perspective view of the hinge connection between the seat and its support.

Referring more particularly to the accompanying drawings, 10 indicates a rectangular cabinet here illustrated as built in a wall or partition. The cabinet is fitted with outwardly and oppositely swinging doors 11 which are hinged to opposite sides of the cabinet, and when in closed position combine to form a complete closure for the cabinet.

Arranged within the cabinet 10 is a table 12 which is hinged to opposite sides of the cabinet by hinge connections such as illustrated in Figs. 4 and 5. These connections permit the table to be arranged vertically in the cabinet as disclosed in Fig. 3 or to be extended to a horizontal position as shown in Figs. 1 and 4. In the latter position the hinged connections serve as supports for the table.

Reference being had to Figs. 4 and 5 where the hinge connections are most clearly illustrated, it is seen that they comprise vertically disposed guideways 14 which are fixed one at each side of the cabinet. Guide members 15 are pivotally supported at the sides of the table at the inner end thereof and are adapted to engage the guideways. These members are adapted to move vertically in the guideways and to abut against the upper ends thereof to limit the upward movement of the inner end of the table. Links 16 are arranged at opposite sides of the table for cooperation with the guideways and guide-members. These links are pivotally connected to the sides of the cabinet adjacent the lower ends of the guideways and to the sides of the table at a point short of the inner end thereof. The links 16 cooperate with the guide members in supporting the table in either of its positions.

On the inner side of each door I arrange a seat 17 which is hinged at one end to the door as at 18. When in folded position as shown

in Figs. 3 and 6, the seats lay flat against the inner surfaces of the doors and when in extended position, they extend at right angles to the doors as shown in Fig. 1. When the doors are fully opened the seats extend in parallelism with the table and at a correct distance therefrom.

The hinge connections between the seats and the doors serve as the inner supports for the seats when in use. To support the outer ends of the seats, I equip each seat with a folding support 19 which is connected by a hinge connection 20 to the bottom of the seat.

Reference being had to Figs. 6 and 7 where the hinge connection just mentioned is most clearly illustrated, it is seen that a hinge rod 21 extends transversely through one end of the support 19 and is pivotally supported at its ends in bearings 22. These bearings are fastened to the underside of the seat. Links 23 are arranged at opposite sides of the support 19 and are pivotally connected to the underside of the seat as at 24. Each link is longitudinally slotted as at 25 to engage headed pins 26 which extend from the sides of the support a short distance from the pivotal point of the support. At the outer ends of the links, recesses 27 are formed contiguous to the ends of the slots in the links to engage the headed pins for latching the supports in extended position.

It is obvious from the foregoing taken in connection with the drawings, that the support for the outer ends of the seats may be folded flat against the seats or extended to and locked in a position at right angles thereto to aid in supporting the seats.

In operation of the present invention assuming that the table and seats are extended into position for use as shown in Fig. 2, the table is swung upwardly to a vertical position against the rear wall of the cabinet. The seats may then be folded against the surfaces of the doors and latched in this position by means of latch members 28. The supports 19 may then be folded against the seats, after which the doors may be closed to conceal the seats and table within the cabinet.

To extend the devices to a position for use, the doors are opened and the table and seats, together with the supports for the latter, are unfolded into position for use.

By connecting the seats to the doors of the cabinet, I am able to use a cabinet which is of minimum size and sightly in appearance.

While I have shown and described the preferred form of my invention, it is to be understood that various changes in its construction may be made without departing from the invention as defined in the appended claim.

Having thus described my invention what I claim and desire to secure by Letters Patent is:

In concealable furnishings, a cabinet having a rear wall and an open front, hinged doors for closing said cabinet front, a table unit of substantially the width of said cabinet and foldably connected with said rear wall, and bench units foldably connected endwise with the inner faces of said doors and adapted, when said doors are opened and disposed parallel with the face of the cabinet, to be projected to each side of the lateral limits of said cabinet and parallel with said table.

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