Dec. 11, 1945. G. MATHER 2,390,546

STOOL

Filed July 22, 1942

Fig. 1

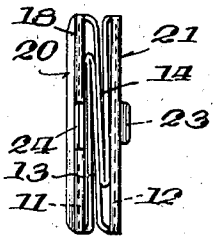


Fig. 3

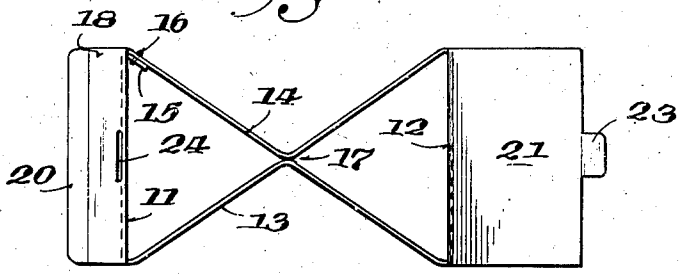


Fig. 2

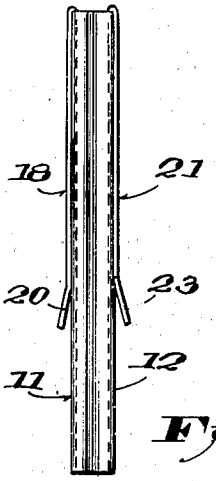


Fig. 4

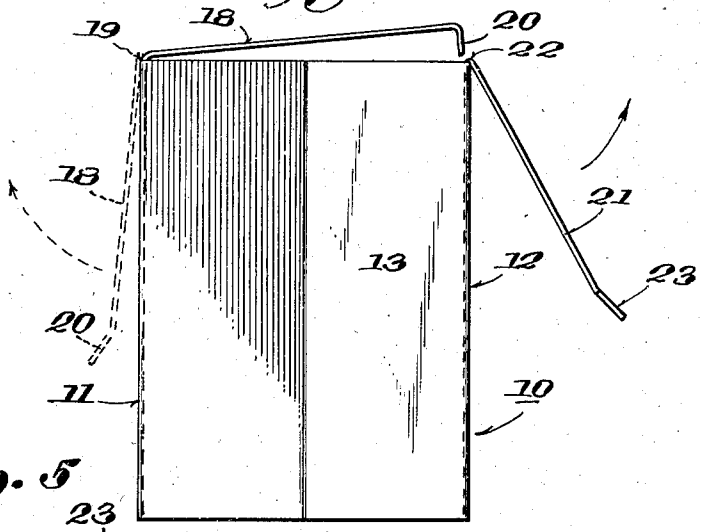
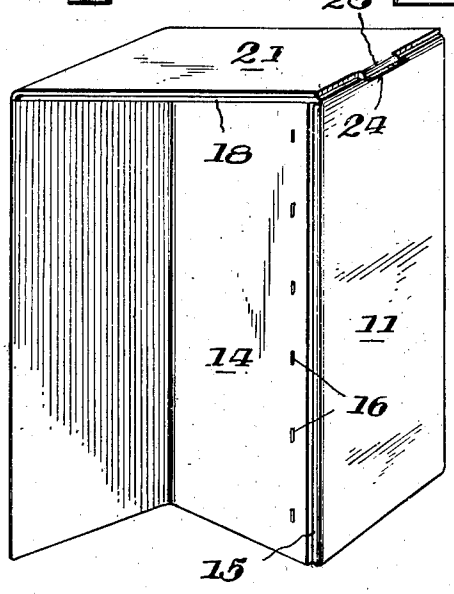


Fig. 5



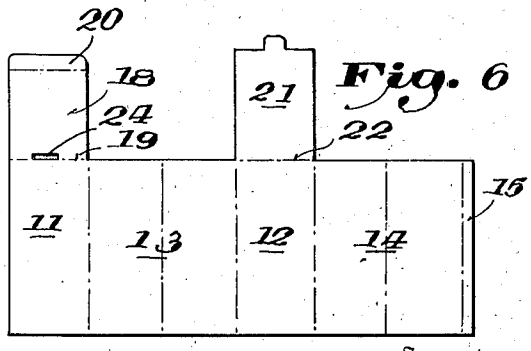


Fig. 6

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Patented Dec. 11, 1945

2,390,546

UNITED STATES PATENT OFFICE

2,390,546

STOOL

Glenn Mather, New York, N. Y.

Application July 22, 1942, Serial No. 451,916

4 Claims. (Cl. 155—149)

This invention relates to foldable or knock-down furniture, and more particularly to a foldable stool formed of sheet material.

The primary object of the invention is to provide a light foldable structure designed to be folded into flat condition so that it may be readily carried by hand, but which may be unfolded and set up to form a sturdy stool capable of firmly supporting an individual seated thereon.

Another object is to supply a foldable stool which may be made from a suitable blank of stiff fiberboard or the like, and having interlocking flaps designed to maintain the stool in set-up condition until the operator desires to transform the stool into knock-down condition.

A further object is to furnish a stool of this character having a pedestal portion with substantially V-shaped opposite side walls to reinforce the seat portion of the stool.

With the foregoing objects outlined and with other objects in view which will appear as the description proceeds, the invention consists in the novel features hereinafter described in detail, illustrated in the accompanying drawing, and more particularly pointed out in the appended claims.

In the drawing:

Fig. 1 is a top plan view of the stool in folded condition.

Fig. 2 is an elevation of the same.

Fig. 3 is a top plan view of the stool with the pedestal portion thereof unfolded or extended, and before the seat flaps have been set up.

Fig. 4 is a side elevation with one seat flap about to be secured in position, and before the other seat flap has been superposed thereon.

Fig. 5 is an perspective view of the stool in set-up condition.

Fig. 6 is a plan view of the blank from which the stool is made.

Referring to the drawing, 10 designates the entire stool which is preferably formed from a single sheet or blank (Fig. 6) of stiff fiberboard or the like. The blank is folded to provide oppositely disposed straight end walls 11 and 12, integral with a V-shaped side wall 13. An opposite V-shaped side wall 14 is integral with the wall 12, and is connected to a flap 15 of the wall 11 by any suitable fastening means such as staples 16.

When the stool is set up, the V-shaped walls extend toward one another, and their ridges abut, as indicated at 17. Due to this arrangement, an X-shaped edge is provided at the top and bottom of the pedestal portion of the stool.

From Fig. 1 it will be noted that the V-shaped walls, when in folded condition, are of less width than the end walls, as this permits the blank to be folded into a flat condition when it is not in use.

A top or seat flap 18 which rests on the X-shaped edge at the top of the pedestal is integral with the upper end of the wall 11, and hinges on a fold line 19, so that a wing 20 at the end of the seat flap can be tucked in to the top portion of the pedestal part of the stool, between the walls 12, 13 and 14.

A second seat flap 21 is integral with the upper end of the wall 12, and hinges on a fold line 22, so that it can be superposed on the part 18 to provide a seat of double thickness. The flap 21 has a hinged tab 23 designed to enter a slot 24 in the part 18 for locking the parts in assembled relation. When in this condition, the stool is capable of supporting a person of relatively heavy weight.

When the stool is to be dismantled or returned to knock-down condition, this can be accomplished by first raising the flap 21, and then the flap 18. When the structure is in this condition, the V-shaped walls can be readily folded flat against the end walls 11 and 12. Any suitable fastening, such as a rubber band, can be placed around the folded structure to hold it in folded condition.

From the foregoing it is believed that the construction, operation and advantages of my improved stool may be readily understood, and I am aware that changes may be made in the details disclosed, without departing from the spirit of the invention, as expressed in the following claims.

What I claim and desire to secure by Letters Patent is:

1. A foldable stool or the like, comprising a pedestal having opposite end walls of stiff sheet material, substantially V-shaped side walls of stiff sheet material hingedly united with the end walls, said side walls having ridge portions extending toward one another, and superposed seat flaps hingedly united with the upper ends of the end walls and resting on the upper edges of the side walls, said ridges being substantially vertically arranged beneath the central portion of the seat flaps.

2. A foldable stool or the like, comprising a pedestal having opposite end walls of stiff sheet material, substantially V-shaped side walls of stiff sheet material hingedly united with the end walls, said side walls having ridge portions extending

toward one another, and superposed seat flaps hingedly united with the upper ends of the end walls and resting on the upper edges of the side walls, said ridges being substantially vertically arranged beneath the central portion of the seat flaps, all of said walls and the seat flaps being parts of a one-piece blank.

3. A foldable stool or the like, comprising a pedestal having opposite end walls of stiff sheet material, substantially V-shaped side walls of stiff sheet material hingedly united with the end walls, said side walls having ridge portions extending toward one another, said ridges abutting at the medial portion of the pedestal, a seat flap hingedly united with the upper end of one of the end walls, and terminating in a wing which extends into the pedestal and engages the inner surface of the opposite end wall, and another seat flap hingedly united with the upper end of the last mentioned end wall and overlying the first mentioned flap, the second flap being provided with a securing tab, the hinged portion of the first flap being slotted to permit the tab to extend therethrough into the pedestal.

4. A stool or the like formed from a fiber-board blank and adapted to be folded into flat condition, said stool comprising a pedestal having opposite end walls, substantially V-shaped side walls hingedly united with the end walls, said side walls having hinged vertically disposed ridge portions extending toward one another and arranged at the central portion of the pedestal, each side wall being foldable along its hinged ridge portion, superposed seat flaps hingedly united with the upper ends of the end walls and resting on the upper edges of the side walls, and means for inter-locking one of said flaps in position to hold the parts in assembled relation.

GLENN MATHER.