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COMBINATION CHAIR AND LADDER

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This invention relates to a combination chair and ladder.

Objects of this invention are to provide a combination chair and ladder which may be used in either capacity and which may be quickly changed from a chair to a ladder by simple and easily operated means, and which may be employed in a variety of capacities as will appear more fully hereinafter.

Further objects are to provide a combined chair and ladder which is so constructed that the seat portion forms an easily accessible compartment when used as a ladder, and in which when the device is used as a chair the opening flap or entrance to the compartment is on the lower side thereby providing a seat for the chair which is unobstructed and free from hinges or gaps or other parts which would render the seat uncomfortable.

Further objects are to provide a combined chair and ladder in which an upper platform is provided for carrying a pail and in which means are also carried by this platform for holding the bail of the pail and thus preventing any inadvertent upsetting of the pail even when it is in its elevated position on the upper platform.

Further objects are to provide means for retaining the bail holder in folded position against the platform when the device is used as a chair, so that it will not interfere with the free and easy use of the device.

An embodiment of the invention is shown in the accompanying drawings in which:

Figure 1 is a sectional view showing the device in full lines as it appears when used as a ladder and showing it in dotted lines as it appears when used as a chair, such view corresponding to a section on the line 1—1 of Figure 2;

Figure 2 is a front view of the structure shown in Figure 1 showing the pail in dotted lines;

Figure 3 is a fragmentary view of the upper portion of Figure 2 showing the pail holder in folded position.

Figure 4 is a perspective view of the pail holder.

Referring to the drawings, it will be seen that the device comprises a pair of rear legs 1 and a pair of front legs 2. The rear legs 1 form in reality the back of the chair when the device is in the dotted line position shown in Figure 1. The device is further provided with a pair of rear legs 3 which project upwardly when the device is used as a ladder and which constitute the rear legs 3 when the device is used as a chair, as shown in dotted lines. In reality, the legs or members 1 and 3 are preferably formed as integral continuations of each other. The device is provided with a continuous unobstructed seat portion 4 beneath which and spaced therefrom is a second member 5. The member 5 is continued as a separate and hingedly mounted flap 6 to provide access to the compartment 7 between the two members forming the seat, as shown in Figure 1. This compartment 7 is closed at its ends by the members 8 and 9, the member 9 being preferably arranged slantingly, as shown.

Further, it is to be noted that the member 8 carries a spring clip or latch 10 which snaps over the free edge of the flap 6 when in closed position.

It is to be noted also that diagonal bracing members 11 and 12 are provided and are equipped with a plurality of treads or steps.

Further, it is to be noted that the legs 2 carry elongated hooks 14 which are adapted to engage eyelets 15 carried by the back 1. Further, it is to be noted that suitable rungs are provided and that the rungs 16 for the legs 1 constitute a portion of the back of the chair, as shown in dotted lines in Figure 1.

In using the device as a ladder, it is frequently desirable to carry a pail adjacent the upper portion of the device. Provision is made for this by means of the uppermost platform or step 17 which is materially wider than the steps 13 and which has pivotally mounted thereon a swinging frame 18. This frame is provided with a pair of hooks 19 at opposite sides thereof and is preferably made from a continuous rod. Further, it is to be noted from reference to Figure 2, that the frame 18 pivotally carries at one side thereof a latching member or link 20 which is provided with an elongated slot 21 having a 100
straight portion throughout its major length and having a curved portion adjacent one end, as shown most clearly in Figure 2. The slot receives the pin 22 secured to the upper platform 17, as shown most clearly in Figure 2, and when the frame is swung to its elevated position, as shown in Figure 2, the pin is located within the laterally curved part of the slot and thus locks the link 20 in position, thereby holding the frame 18 in its upright position.

It will be seen, therefore, that the pin 23 shown in dotted lines in Figure 2, may have its bail 24 readily secured over the hooks 19 of the frame and may thus be held against inadvertent displacement. Further, the relatively wide upper tread or platform 17 provides a secure support for the brace of the rail.

It is to be noted that the legs 3 are provided with eyelets 25 which cooperate with the hook 14 in one position of the device.

It is to be noted particularly also that the seat construction is such that the actual seat portion 4 is unobstructed and is free from hinges or gaps therein, so that it provides a very comfortable seat when used as a chair.

Further, when the device is used as a ladder, it is apparent that the compartment may be readily reached by raising the flap 6, as this flap is then positioned on the upper side. Further, it is to be noted that the entire seat bodily pivots about the front legs and, consequently, no breaks are necessitated in the seat construction due to this mode of functioning.

When the rail holder frame is not in use, it may be rocked down flat against the upper platform or tread 17, as shown in Figure 3, and the transverse upper portion of the frame may snap beneath the catch 26, as shown in such figure, thereby retaining the frame folded and out of the way.

This device forms a very comfortable kitchen chair for instance, and may be very quickly converted into a ladder.

Further, as described in detail above, the provision for the secure support of a rail adjacent the upper end of the ladder makes the device eminently suitable for use in window washing or washing relatively elevated positions of a building, such as the walls or ceilings, for instance, or the electric fixtures in a room.

It will be seen also that the rags and other articles used in this operation may be readily stored in the compartment 7 when not in use, and also it is to be noted that the entrance flap for the compartment is located on the upper side of the seat structure when the device is used as a ladder.

Although the invention has been described in considerable detail, such description is intended as illustrative rather than limiting as the invention may be variously embodied and as the scope of such invention is to be determined as claimed.

I claim:

In a device of the class described, the combination of a supporting structure, a rail receiving platform carried thereby, a hook-like member for the reception of the bail of a rail, said member being pivoted to said platform and having an elongated slot terminating in an offset locking portion, and a pin carried by said platform and slidably received in said slot, said pin locking the said link when said pin is located in the offset portion, whereby said hook-like member is temporarily locked in upright position.

In testimony whereof I have hereunto set my hand at Milwaukee, in the county of Milwaukee and State of Wisconsin.

ADOLF WUEST.