Aug. 22, 1961 C. B. DAVIS 2,997,125

COLLAPSIBLE TABLE AND STAND

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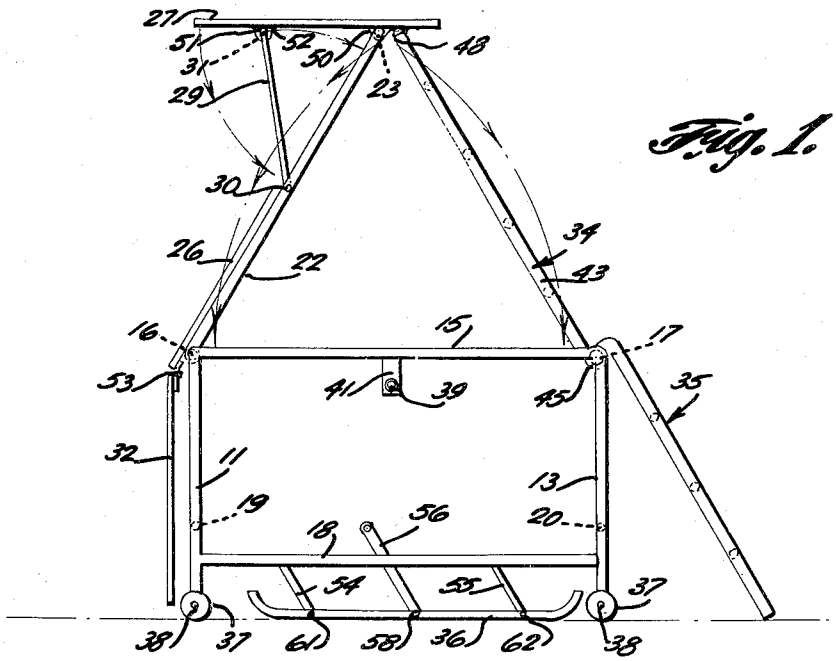


Fig. 1.

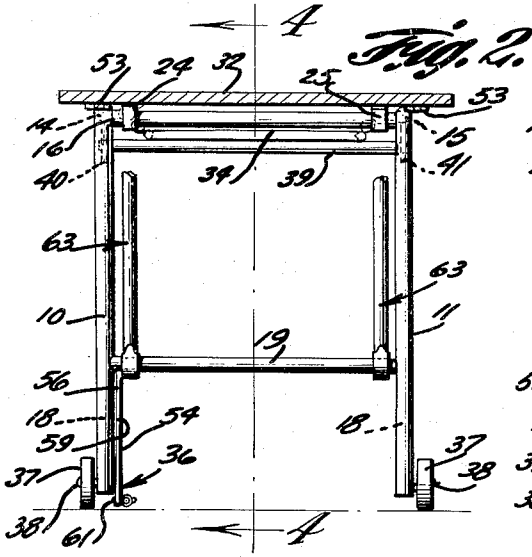


Fig. 2.

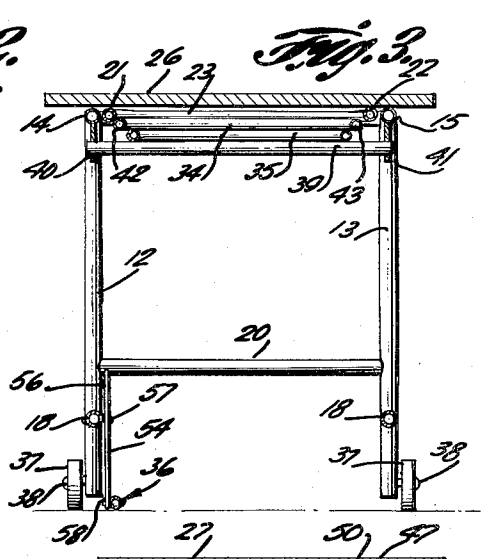


Fig. 3.

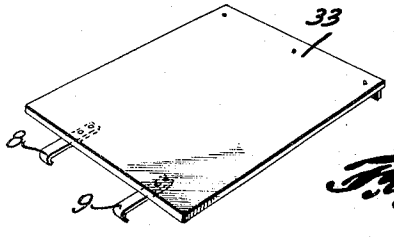


Fig. 6.

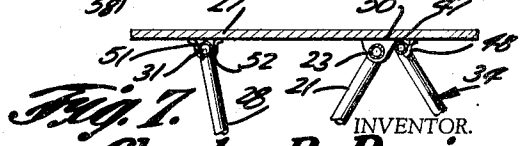


Fig. 7.

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COLLAPSIBLE TABLE AND STAND

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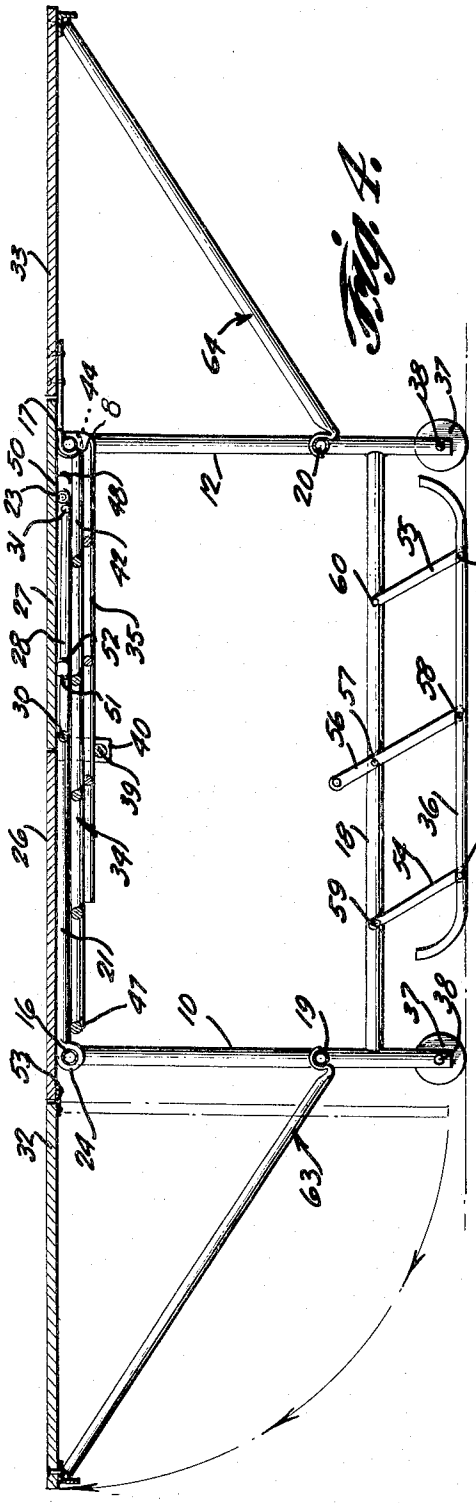


Fig. 4.

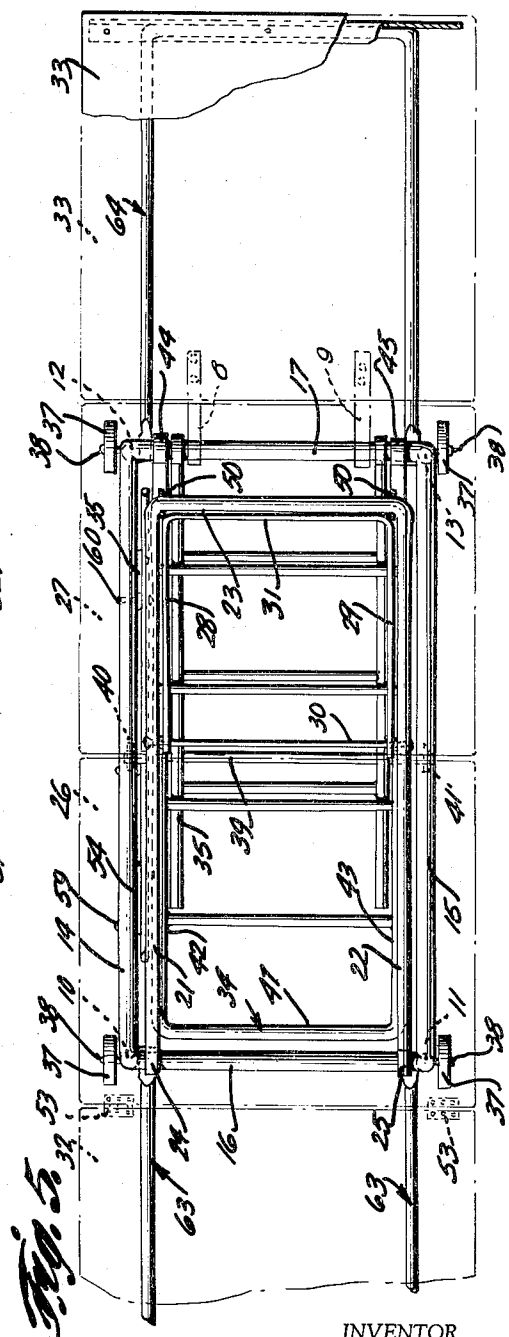


Fig. 5.

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COLLAPSIBLE TABLE AND STAND

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2 Claims. (Cl. 182—28)

This invention relates to a utility stand designed to be used as a table, ladder, or the like, and in particular a rectangular shaped frame mounted on wheels and having a table top designed to be positioned on the stand or to extend upwardly above the stand and a ladder also designed to fold to a horizontal position on the stand or to extend upwardly in the form of a step ladder.

Various types of utility stands, ladders, and other supports have been provided for use in a kitchen, or on a porch. However, stands in the form of small step ladders are folded and stored until use thereof is desired and folding tables, such as may be used continuously are not suitable for use in reaching the ceiling or other relatively high places.

With this thought in mind this invention contemplates a utility stand that is suitable for use as a table so that it may be used in a kitchen, or on a porch, or the like and that may also be set up to provide a ladder or the like.

The object of this invention is, therefore, to incorporate the structure of a ladder in a portable table or stand.

Another object of the invention is to provide a collapsible table in which a ladder may extend upwardly from one end of the table and in which extensions may be supported at ends of the table.

A further object of the invention is to provide a combination collapsible table and ladder assembly in which the table and ladder assembly is of a simple and economical construction.

With these and other objects and advantages in view the invention embodies a stand having posts with wheels on lower ends thereof at the corners, a table top with end extensions adjustably mounted on the upper end of the stand and a ladder mounted on the end of the stand opposite to the end on which the table top is mounted and positioned to fold to a nested position below the table top with the table top in a horizontal position.

Other features and advantages of the invention will appear from the following description taken in connection with the drawings, wherein:

FIGURE 1 is a side elevational view showing the improved collapsible table and stand with the parts extended to provide a ladder on one side of the stand.

FIGURE 2 is an elevational view of one end of the table and stand as shown in FIGURE 1, partly in section and partly broken away, showing the ladder and table top folded to nested positions in the upper part of the stand.

FIGURE 3 is a transverse sectional view through the stand with the parts folded as shown in FIGURE 2 and with the additional section of the ladder in folded relation to the table top.

FIGURE 4 is a vertical sectional view of the stand on the line 4—4 of FIGURE 2 with the parts thereof in folded positions and with the table top and extensions in extended positions and supported by diagonal braces positioned on the ends of the stand.

FIGURE 5 is a plan view of the stand partly broken away and partly in section with the parts thereof in folded position and with the table top and extensions shown in broken lines.

FIGURE 6 is a perspective view of one of the extensions that is used with the stand.

FIGURE 7 is a sectional view partly broken away showing the manner in which the ladder is pivotally

connected to the panel and the manner in which the brace is pivotally connected to the panel.

Referring now to the drawings wherein like reference characters denote corresponding parts the improved collapsible table and stand of this invention includes posts **10** and **11** at one end, similar posts **12** and **13** at the opposite end, longitudinally disposed upper side bars **14** and **15** connecting upper ends of the posts, transversely disposed upper end bars **16** and **17** also connecting upper ends of the posts, lower side bars **18** extended between the lower ends of the posts on both sides of the stand, lower transversely disposed bars **19** and **20** connecting lower parts of the posts, a U-shaped frame having arms **21** and **22** and a cross-bar **23** positioned with bearings **24** and **25** on the ends of the arms **21** and **22** pivotally mounted on the cross bar **16**, a table top **26** mounted on the U-shaped frame including the arms **21** and **22** and the cross-bar **23**, a panel **27** positioned to co-act with the table top **26** to provide a complete cover for the upper end of the stand, a U-shaped brace having arms **28** and **29** pivotally mounted on a rod **30** spaced downwardly from upper ends of the arms **21** and **22** and said brace having a cross bar **31** connecting upper ends of the arms **28** and **29**, extension sections **32** and **33** that are extended from the table top and panel **27** are retained in position by hook members **8** and **9** on the extension **33** that engages the end bar **17** and hinges **53** that pivotally connect the extension **32** to the table top **26**, a ladder having an upper section **34** and a lower section **35**, a brake **36** for preventing accidental rolling of the stand and wheels **37** that are rotatably mounted by pins **38** in lower ends of the corner posts of the stand.

The sections **34** and **35** of the ladder are designed to nest below the table top **26** with the parts folded, the ladder sections resting upon the transversely disposed bar **39**, the ends of which are secured in tangs **40** and **41**. Lower ends of the side rails **42** and **43** of the upper section **34** of the ladder are provided with bearings **44** and **45** that are rotatably mounted on the cross-bar **17** and the upper ends of side rails **42** and **43** of the upper section **34** of the ladder are connected by a cross-bar **47** that snaps behind spring clips **48** and **49** on the under surface of the upper panel **27** and the cross-bar **23** of the U-shaped frame having the side bars **21** and **22** is pivotally mounted in bearings **50** also on the under surface of the panel **27**. The cross-bar **31** of the brace formed with the side arms **28** and **29** is snapped between spring clips **51** and **52** which are positioned on the under surface of the panel **27**; whereby with the parts set up to provide a ladder or stand the U-shaped frame on which the table top **26** is positioned and the upper sections **34** of the ladder support the panel **27** in the horizontal position providing a platform, such as a platform at the upper end of a step-ladder.

The table top **26** is secured to the arms **21** and **22** of the U-shaped frame having the cross-bar **23** at the upper end and the extension **32** is secured to the edge of the table top **26** by hinges **53**, as previously described. The extension **33** at the opposite end of the table being secured to the edge upper end bars **17** as previously described by hook members **8** and **9** so that the hook members **8** and **9** can be removably detached from the bars **17** as desired.

The runner **36**, which provides a brake, to prevent the table or stand moving with a person on the ladder, is mounted by links **54** and **55** on one of the rods **18** and the brake is actuated by a handle **56** pivotally mounted by a pin **57** on the bar **18**. The lower end of the handle **56** is pivotally connected by a pin **58** to the runner **36**. The links **54** and **55** are pivotally connected by

pins 59 and 60 to the bar 18 and by pins 61 and 62 to the runner 36.

With the parts assembled as illustrated and described the stand may be set up as a scaffold or step-ladder with the section 34 of the step-ladder extended upwardly and the section 35 extended downwardly and with the panel 27 providing the platform. With the brake 36 actuated to a holding position one may travel up the step-ladder to reach articles in upper ends of closets in a kitchen or to repair a ceiling or upper parts of walls.

When not in use the upper section 34 of the ladder and the frame 22 are lowered to a nested position shown in FIGURE 2 and the panels 32 and 33 may be supported in extended positions by braces 63 and 64, the outer ends of which are positioned below extended ends of the panels or extensions 32 and 33. The extensions 32 and 33 may or may not be used, as may be desired.

The collapsible table or stand may be provided in different designs and although it is preferred to make the stand of tubing, it may be made of other suitable materials and may also be provided in different sizes.

It will be understood that modifications, within the scope of the appended claims, may be made in the design and arrangement of the parts without departing from the spirit of the invention.

What is claimed is:

1. In a collapsible table and ladder, the combination which comprises a rectangular shaped frame having vertically disposed posts at the corners and with the posts connected by longitudinal and transversely disposed members, a U-shaped support pivotally mounted on one of said transversely disposed members at one end of the frame, a table top positioned on the U-shaped support, a panel mounted in a horizontally disposed position on the upper end of the U-shaped support, a brace extended from the U-shaped support to one side of the panel for supporting the panel, a ladder having an upper section pivotally mounted on a transverse member of the frame and also connected to the under side of the panel and a lower section extended from the transverse bar of the frame downwardly, and a transversely disposed bar suspended from side members of the frame for retaining the ladder in nested position below the table top and panel thereon.

2. A combination table and ladder as described in claim 1 in which a brace is provided in the lower portion of the frame and in which extensions are provided at the ends of the table top and panel.

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