April 8, 1958 M. A. STUCK 2,829,940

HORIZONTAL OPENING DESK

Filed May 6, 1955

2 Sheets-Sheet 1

Fig. 1

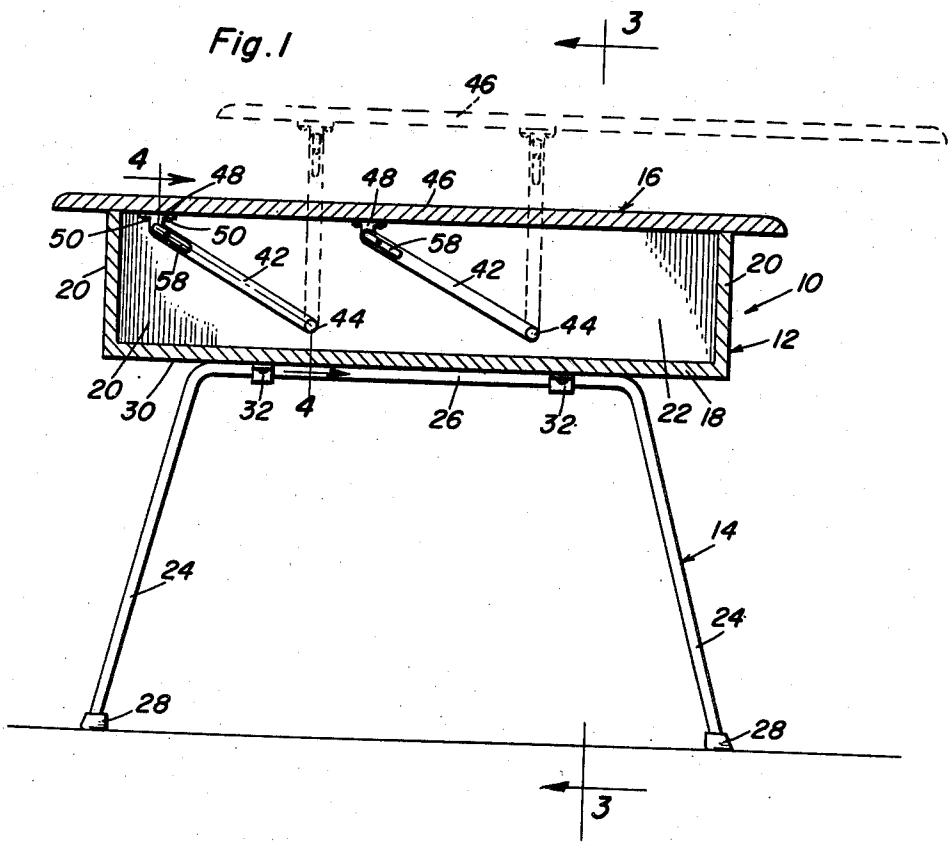
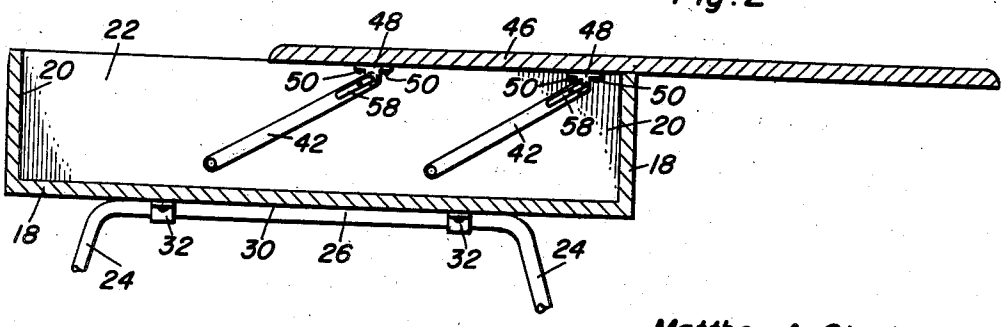


Fig. 2



Matthew A. Stuck
INVENTOR.

BY Clarence A. O'Brien and Harvey B. Jacobson
Attorneys

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2 Sheets-Sheet 2

Fig. 3

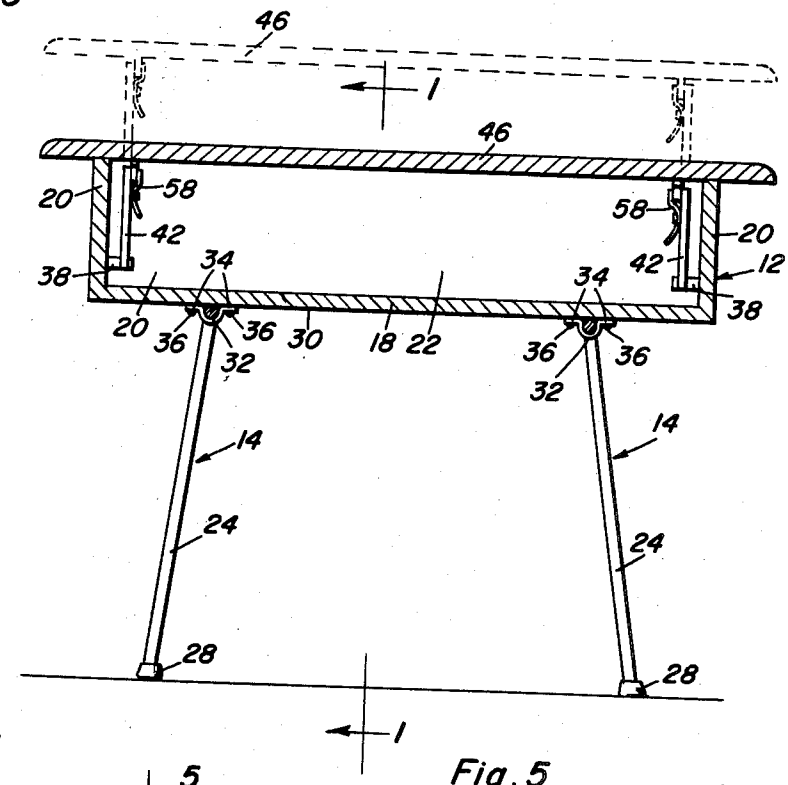


Fig. 4

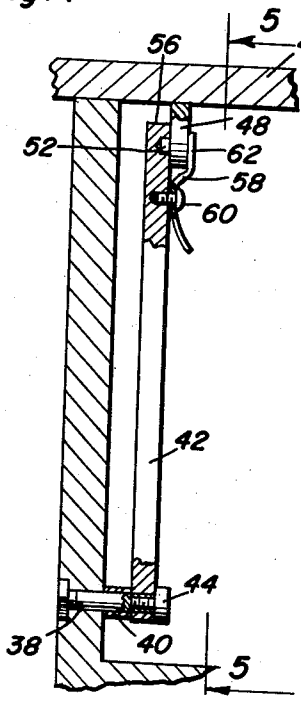


Fig. 5

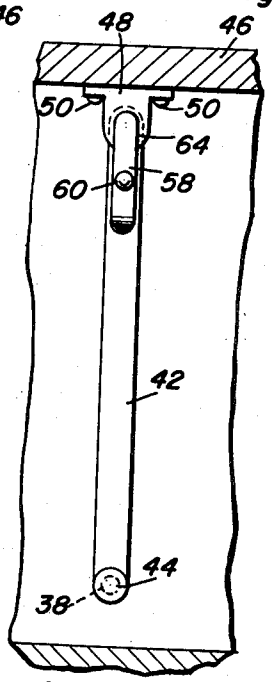
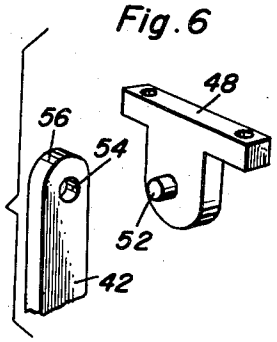


Fig. 6



Matthew A. Stuck
INVENTOR.

BY Clarence A. O'Brien and Harvey B. Jacobson
Attorneys

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2,829,940

HORIZONTAL OPENING DESK

Matthew A. Stuck, Menasha, Wis., assignor of twenty-five percent to Albert T. Stuck, Menasha, Wis.

Application May 6, 1955, Serial No. 506,580

1 Claim. (Cl. 312—325)

This invention is related generally to furniture construction and is more particularly concerned with a readily usable desk which provides a horizontal writing or support surface, said support surface being movable horizontally away from a receptacle portion of said desk whereby various material on said horizontal support surface is undisturbed.

A further object of invention in conformance with that set forth above is to provide a writing desk which includes a horizontal top surface or cover member which is supported on a plurality of pivotal links which guide the opening or movement of support surface away from a desk receptacle in a relatively fixed horizontal plane.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a vertical sectional view taken substantially on line 1—1 of Figure 3;

Figure 2 is a fragmentary sectional view similar to Figure 1 and showing the horizontal support surface in an open position relative to the desk receptacle;

Figure 3 is a sectional view taken substantially on line 3—3 of Figure 1;

Figure 4 is an enlarged sectional view taken substantially on line 4—4 of Figure 1;

Figure 5 is a sectional view taken substantially on line 5—5 of Figure 4; and

Figure 6 is an exploded perspective view illustrating the hinge portions on the pivot link of said desk.

The desk is indicated generally at **10** and includes a receptacle portion **12** supported on support legs **14**, said receptacle **12** including secured thereon a horizontally movable support surface **16**.

The receptacle **12** includes a bottom portion **18** having upwardly extending sides **20** defining a receptacle portion **22**.

The support legs **14** include a generally U-shaped member which includes legs **24** connected to a bight portion **26** and including on the lower end of the legs suitably resilient end elements **28**. The bight portion **26** is secured to the undersurface **30** of the bottom member **18** by means of transversely spaced bracket elements **32** which include outwardly extending flange portions **34** through which extend suitable fasteners **36**. As seen in Figure 3, the receptacle **12** has two spaced support leg members secured thereto providing therebetween a suitable space for the user's knees to extend underneath the receptacle portion of the desk.

As seen in Figure 3 secured on opposite side walls of the receptacle **12** are pivot pins **38** which have concentrically disposed thereon a spacer sleeve **40**, see Figure 4, pivotally supporting a pivotal link **42** which is pivotally supported on the pivot pin **38** between the sleeve **40** and a suitable screw fastener **44**.

The support surface **16** includes a top member **46** having secured thereon in suitable spaced relation a pair of bracket elements **48**, retained by means of suitable screws **50**, for example, the bracket elements including an outwardly extending pivot pin **52** pivotally received within an aperture **54** in the top end **56** of the pivot link **42**. The pivot link includes a resilient clip element **58** fixedly supported on a pivot pin **60** disposed downwardly from the upper end **56** of the pivot link **42**, said resilient clip element including an upper offset resiliently urged portion **62** which is engageable within a suitably recessed portion **64** on the surface of the bracket element **48** opposite that from which the pivot pin **52** extends.

As seen in Figures 1 and 2, and shown by the phantom lines of Figure 1, the desk top **46** may be moved on the pivot links **42** from the position shown in Figure 1 whereupon the top **46** is in juxtaposition over the upper edges of the sides **20** of the receptacle **12**. Said top **46** may be rotated on the pivot links **42** into the position shown in Figure 2 whereupon a person sitting adjacent to the portion at the left end of the receptacle, as seen in Figure 2, will have access to the interior **22** of the receptacle. The resilient clip elements **58** aid in supporting the top **46** in the position seen in Figure 3 by virtue of their cooperation with the recesses **64** as previously mentioned, for the purpose of having access to the entire receptacle portion **22**.

Various positional directional terms such as "top," "bottom," etc., are utilized herein to have only a relative connotation to aid in describing the device and are not intended to be interpreted as requiring any particular orientation with respect to any external elements.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly all suitable modifications and equivalents may be resorted to, falling within the scope of the invention as claimed.

What is claimed as new is as follows:

A desk including vertical sides, opposite pairs of links having corresponding ends pivoted to said sides for swinging of said links into and from a vertical position, a top, brackets depending from and fixed to said top and having pivot pins on one side thereof on which the other ends of said links are pivoted for raising and lowering of said top in response to swinging of said links into and from vertical position, said brackets having recesses therein in the other side thereof, and resilient clips on said other ends of the links yieldingly interlocking with the said recesses in the vertical position of said links to yieldingly lock said links in vertical position and said top raised.

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