

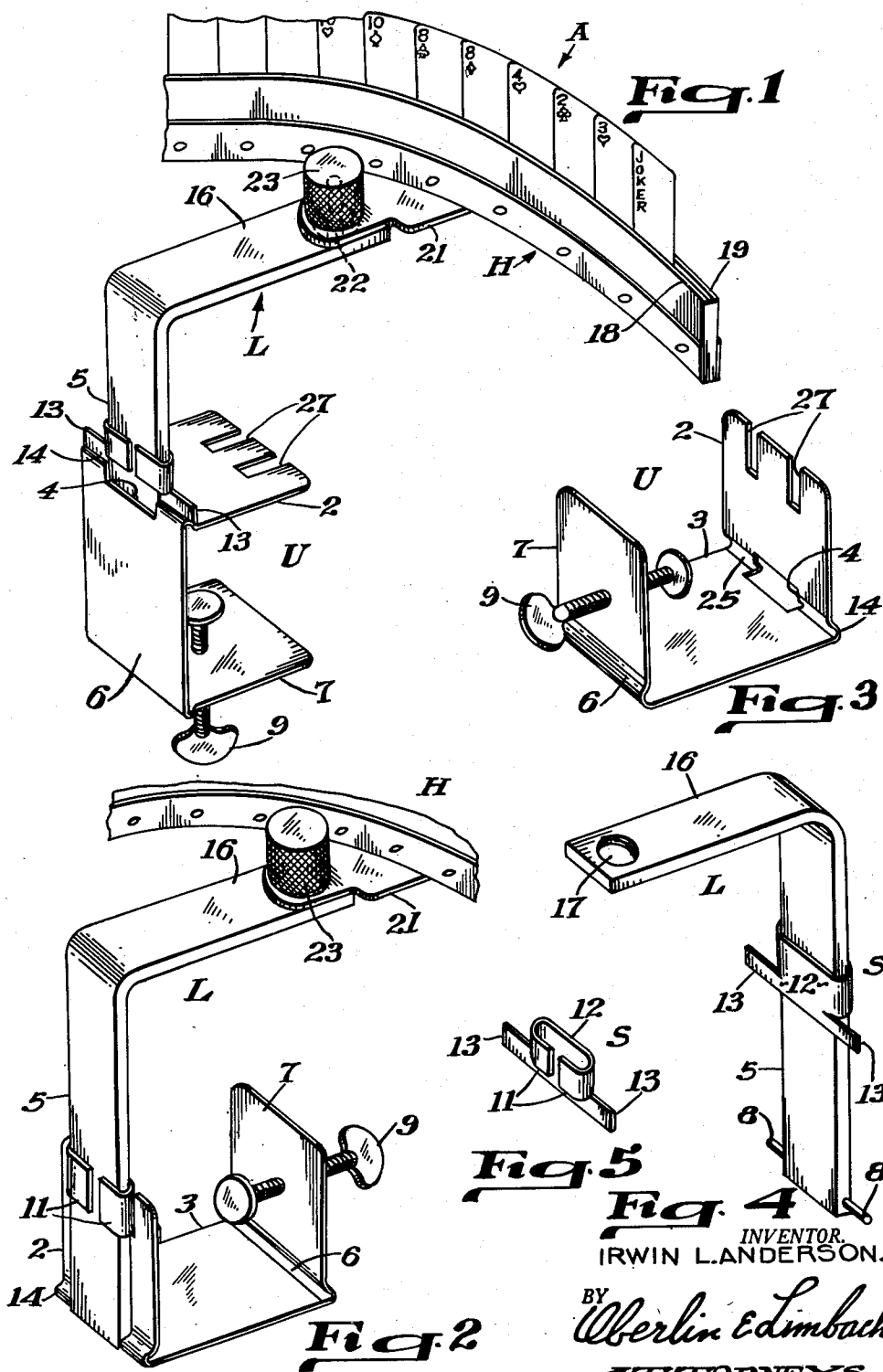
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ADJUSTABLE SUPPORT

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ADJUSTABLE SUPPORT

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1

This invention relates to support devices, and more particularly supports adapted to be temporarily fastened, such as to an article of furniture, as a table, etc.; and among the features of the invention are the provision of structure to adjustably fasten onto different forms of available edges, and the provision of structure for holding a range of articles. Other objects and advantages will appear from the following description.

To the accomplishment of the foregoing and related ends, the invention, then, comprises the features hereinafter fully described and particularly pointed out in the claims, the following description setting forth in detail certain illustrative embodiments of the invention, these being indicative, however, of but a few of the various ways in which the principle of the invention may be employed.

In said annexed drawing:

Fig. 1 is a perspective view of an embodiment of the invention, in one arrangement of attachment;

Fig. 2 is a similar view, partly broken, showing another arrangement of attachment;

Fig. 3 is a perspective view of the attaching portion of the structure;

Fig. 4 is a perspective view of the support arm; and

Fig. 5 is a perspective view of the locking clamp.

In general, the device involves an L-shaped support member adjustably carrying the holder portion for the articles to be supported, and a generally U-shaped member carrying the L-shaped member and being fastenable on an available edge of an article of furniture, as for instance a table. As adapted for fastening to a horizontal edge, as illustrated in Fig. 1, the relationship of the generally U-shaped member U with the L-shaped member L involves the positioning of the latter with one limb of the L against the web portion of the U member, and for this, the latter at the juncture of its flange 2 and its web 3 has a rectangular cut-out 4, Figs. 1 and 3, through which the one limb 5 of the L-shaped member enters to lie parallel against web 3, while the end of the limb 5 rests at the juncture of the web 3 and the flange 7 of the U-member. Here, there is an expanded recess 6 formed at the angle, as shown particularly clearly in Fig. 2; and as shown at Fig. 4 the limb 5 has at its end lateral gudgeons 8 which seat in the recess 6. Preferably, the gudgeons are positioned close to the back and end of the limb 5 so as to more particularly seat into the recess 6.

2

A thumb-screw 9 is threaded into the flange 7 of the U-member, and thereby the device may be clamped to a projecting horizontal edge, as a table. Such edge being in contact against the limb 5 and the whole tightly secured by the thumb screw, displacement of the relative position of the L-shaped member in the clamping U-member is prevented; but for additional security it is preferred to provide a lock or latch S in the form of a slide, Fig. 5, on the limb 5. This slide, of suitably thick stock has rebent flanges 11 which extend from the main body 12 and partly surround the limb 5, while the lateral arms 13 form a catch or holding means against the U-member. It is noticed that the juncture of the web 3 and the flange 2 of the U-member is slightly deformed to present a ridge 14 externally, and a recess correspondingly internally. The arms 13 of the slide S thus can position against the ridge 14, as shown in Fig. 1, and additionally hold against relative displacement between the L-member and the U-member. The other limb 16 of the L-member adjustably carries the holder portion H; and while this may vary in its detailed form, a generally useful embodiment involves a trough-like member with walls 18, 19, spaced apart for such articles as are to be accommodated. By suitably folding up proper heavy stock, the holding trough may be closed at the bottom and provide desirable all-round rigidity. Where desired, this member may be of arcuate form instead of straight, as shown in Fig. 1. The ends of the trough-like member may be closed by suitable closure means. Projecting from the trough-like member is a lug 21 which has an opening through which a holding bolt or screw 22 fastens the lug to the limb 16. The bolt or screw 22 may be a conveniently large thumb-nut head 23, and most simply this may be integral with the threaded shaft and permit adjustment and tightening into a threaded opening 17 in the limb 16.

In effect, the L-member is articulated to the U-member, and this permits a ready shift of relative position such that where the device is to be fastened into a vertical edge as, for example, a flanged-edge table, the relationship of the parts is as shown in Fig. 2. The slide S having been loosened and retracted from the position shown in Fig. 1, the U-member is slid along the limb 5, bringing the gudgeons 8 out of the recess 6, and positioning them in the recess 25 which is at the juncture of the flange 2 and web 3 of the U-member, as shown best in Fig. 3. This includes a slight deformation outwardly at the juncture, sufficient to accommodate the gudgeons and end of the

limb 5 which rests against the inside of the flange 2 of the U-member as in Fig. 2. Here again, the clamping of the thumb-screw 9 against the flange of the table or the like holds the parts in their position, but for additional securement the slide S again can exert a locking function. The flange 2 of the U-member is provided with two end slots 27, and in the relative position of the parts as in Fig. 2, it is seen that the slide when pushed down enters the slots 27 with its rebent portions 11, the ends of these being on the outside, while the lateral projections 13 slide down on the inside of the flange 2. Thus the limb 5 is positively locked to the flange 2.

All-around applicability to available edges for fastening on, is thus had, and the device is of convenience in holding various articles, illustrated for instance in Fig. 1 at A.

Other modes of applying the principle of the invention may be employed, change being made as regards the details described, provided the features stated in any of the following claims, or the equivalent of such, be employed.

I therefore particularly point out and distinctly claim as my invention:

1. A support, comprising a generally U-shaped member adapted to be attached to either horizontal or vertical supporting edges and an L-shaped member connected thereto, said U-shaped member having a clamping thumb-screw in one of its flanges and a recess at the juncture of such flange and the U-member web portion, and a recess and cut-out at the juncture of the web and the other flange, the latter flange having a pair of end slots, said L-shaped member having one limb passing through said cut-out and resting against the inside of the web portion of the U-member with end at the recess between the web and the thumb-screw flange in one position, and in another position against the outside of the U-member flange having the end slots, an external ridge at the juncture of the latter flange and web, a lock slide on said L-member engaging the end slots of the U-member flange in one position and engage behind the said ridge in another position, lateral gudgeons on the end of the said limb of the L-shaped member which engages the U-shaped member, an article-holding element having front and back walls, a lug projecting from the lower part of said element, and screw-threaded means for securing said lug to the L-shaped member.

2. A support, comprising a generally U-shaped member adapted to be attached to either horizontal or vertical supporting edges and an L-shaped member connected thereto, said U-shaped member having a clamping thumb-screw in one of its flanges and a recess at the juncture of such flange and the U-member web portion, and a recess and cut-out at the juncture of the web and the other flange, the latter flange having a pair of end slots, said L-shaped member having one limb passing through said cut-out and resting against the inside of the web portion of the U-member with end at the recess between the web and the thumb screw flange in

one position, and in another position against the outside of the U-member flange having the end slots, lateral gudgeons on the end of the said limb of the L-shaped member which engages the U-shaped member, an article-holding element having front and back walls, a lug projecting from the lower part of said element, and screw-threaded means for securing said lug to the L-shaped member.

3. A support, comprising a generally U-shaped member adapted to be attached to either horizontal or vertical supporting edges and an L-shaped member connected thereto, said U-shaped member having a clamping thumb-screw in one of its flanges, and a recess and cut-out at the juncture of the web and the other flange, the latter flange having a pair of end slots, said L-shaped member having one limb passing through said cut-out and resting against the inside of the web portion of the U-member with end at the juncture between the web and thumb-screw flange in one position, and in another position against the outside of the U-member flange having the end slots, a lock-slide on said L-member engaging the end slots of the U-member flange in one position, lateral gudgeons on the end of the L-shaped member which engages the U-shaped member, an article-holding element having front and back walls, a lug projecting from the lower part of said element, and screw-threaded means for securing said lug to the L-shaped member.

4. A support, comprising an L-shaped member and a generally U-shaped member to which it is articulated for positions selectively with one limb of the L-member against the outside of one flange of the U-member, and in another position with said limb of the L-member against the inside of the web portion of the U-member, the juncture of the web and one flange of the U-member having an opening and recesses laterally thereof, and the juncture of the web portion and the other flange having a recess cooperating with said L-member, an article-holding element, and screw-threaded means for securing the same to said L-shaped member.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
417,997	Du Puis	Dec. 24, 1889
1,631,355	Baldwin	June 7, 1927
1,821,488	Wetherbee	Sept. 1, 1931
1,852,650	Halberstadter	Apr. 5, 1932
1,929,171	Jenkenson	Oct. 13, 1933
2,188,701	Brullhardt	Jan. 30, 1940
2,278,121	Berluti	Mar. 31, 1942

FOREIGN PATENTS

Number	Country	Date
480,162	Germany	July 4, 1929