Aug. 15, 1933. H. A. DU BOIS 1,922,935

ARTICLE SUPPORTING BRACKET

Filed March 31, 1932

Fig. 1

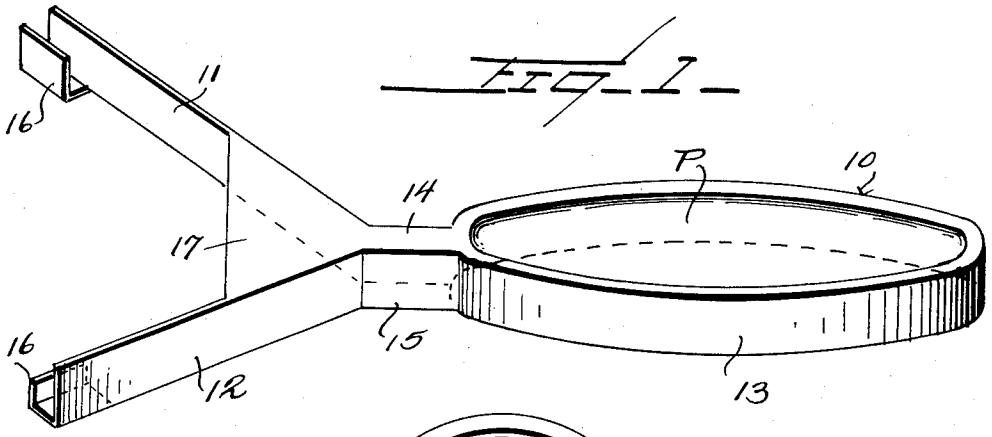


Fig. 2

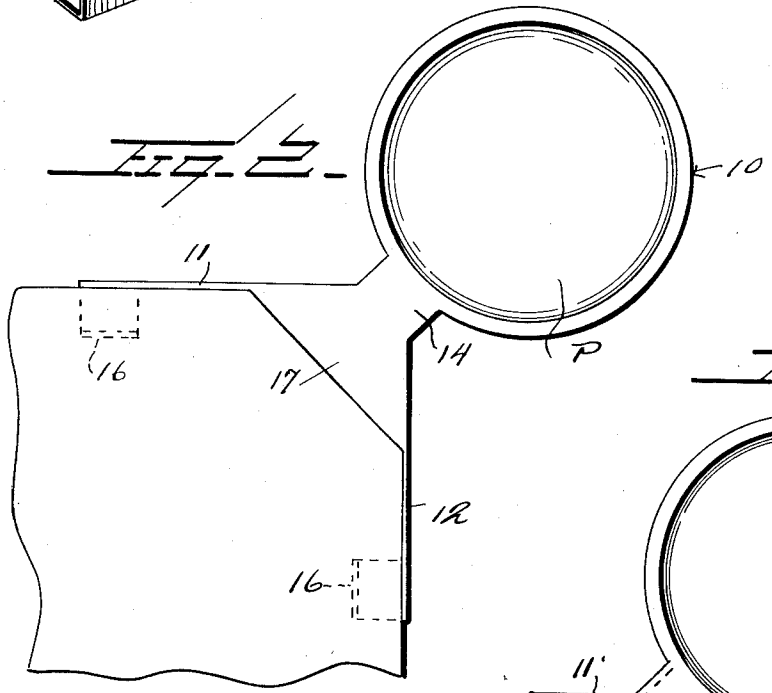


Fig. 3

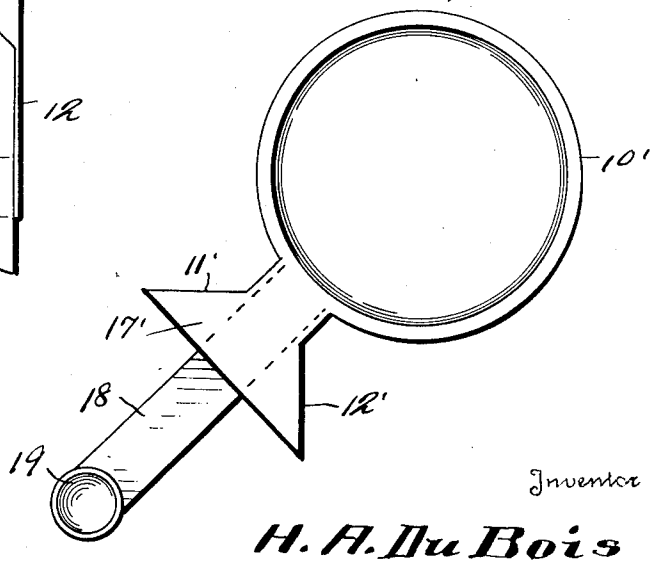
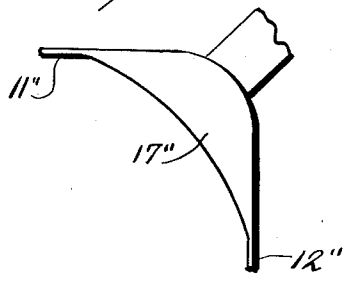


Fig. 4



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ARTICLE SUPPORTING BRACKET

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4 Claims. (Cl. 45—75)

This invention relates to trays or article supporting means and more particularly to a removable support for holding an article from the top of a table in a position outwardly from the edges of the table.

An object of this invention is to provide an improved article supporting means which may be readily mounted on the corner of a table structure without interfering with the use of the top of the table while firmly holding articles in a position outwardly of the marginal edge of the table.

Another object of this invention is to provide a supporting structure of this kind which is so constructed that it may be used on tables having depending flanges at the marginal edges thereof, or tables which are of a single thickness and are without flanges.

A further object of this invention is to provide a device of this kind which can be manufactured relatively cheaply out of various kinds of material such as wire, strip metal, or the like.

The above and various other objects and advantages of this invention will in part be described in and in part be understood from the following detailed description of the present preferred embodiment, the same being illustrated in the accompanying drawing, wherein:—

Figure 1 is a detail perspective view of a device constructed according to the preferred embodiment of this invention.

Figure 2 is a detail top plan view of the device mounted on a table which is shown in fragmentary form.

Figure 3 is a detail top plan view of a modified form of this device.

Figure 4 is a fragmentary top plan view of a further modification of this device.

Referring to the drawing wherein like numerals of reference designate corresponding parts throughout the several views, the numeral 10 designates generally an article supporting member which, in the present instance, is of angular or round construction and is provided with a central plate P having a depending annular flange 13 formed therewith. If desired, however, this supporting member 10 may be constructed in the form of a ring of wire or the like.

A pair of divergent arms 11 and 12 are secured to inwardly extending arms 14 and 15, respectively, these arms 14 and 15 being secured to the flange 13 so as to dispose the article supporting member 10 outwardly of the angularly related arms 11 and 12. Preferably, these arms 11 and 12 are disposed at substantially right angles to each other so as to engage the right angle corner of a table structure, and in the present instance, the device has been designed for use in supporting articles outwardly of the corner of a card table or the like.

The terminal ends of the arms 11 and 12 are provided with inwardly extending L-shaped clamping arms 16, one leg of the clamping arms 16 being disposed in substantially parallel relation to the confronting face of the arms 11 and 12. This clamping member 16 is adapted to engage the lower edge and the inner face of a depending flange carried by card tables having a rim disposed below the top surface of the table.

A web or connecting member 17 connects the arms 11 and 12 adjacent the forward end thereof and is disposed on the upper edge of these arms and not only acts to connect these arms together so as to prevent spreading of the arms, but is adapted to engage the upper surface of the corner of the table so as to prevent downward movement of the tray structure 10 when engaged with the corner of the table. If desired, the web 17 may be extended outwardly over the top of the connecting arms 14 and 15 and be secured to the inner edge of the tray structure 10. If desired, these arms 11 and 12 may be formed one with another and the arms 14 and 15 formed together and secured to the converging ends of the arms 11 and 12. The connected portion of the arms 11 and 12 may be rounded off, as shown in Figure 4 so that where the table structure is provided with a rounded corner, the arms 11 and 12 will snugly fit the adjacent sides of the table.

As shown in Figure 3, the article supporting tray 10′ may be provided with an inwardly extending arm 18 which has a suction cup 19 mounted thereon, this structure being used where the table is not provided with a depending flange or rim and in a structure of this kind, the inwardly extending clamping members 16 may be omitted and the arms 11′ and 12′ cut off at the inner end of the web 17′.

In Figure 4, a further modification of this device is shown wherein the connection between the arms 11″ and 12″ is curved, as is the convergent end of the web 17″ so as to engage about a rounded corner of a table.

In the use of this device, the arms 11 and 12 may be disposed along the adjacent sides of a table at the corner thereof and the clamping arms 16 disposed beneath the rim of the table and inwardly of the rim with the tray structure in an upwardly inclined position. The tray structure 10 may then be lowered into a horizontal position which will carry the clamping members

16 into engagement with the rim of the table and due to the web structure 17 engaging the top of the table, the tray structure 10 will be securely maintained in a horizontal position outwardly of the corner of the table.

It is, of course, understood that various changes and modifications may be made in the details of construction and design of the above specifically described embodiment of this invention without departing from the spirit thereof, such changes and modifications being restricted only by the scope of the following claims.

What is claimed is:—

1. An article supporting means comprising a tray, a pair of angularly related arms integral with the tray, inwardly extending table engaging means carried by the terminal end of each arm for engagement below a table top structure, and means carried by each arm inwardly of the terminal ends thereof and engaging the top of the table and coacting with said table engaging means to hold the tray in horizontal position outwardly of the table and to prevent spreading of the arms.

2. An article supporting means comprising a tray, a pair of divergent arms integral with the tray and adapted to engage the sides of a table top, means carried by each arm and engaging the table beneath the top, and means coacting with said latter named means to hold the tray in a horizontal position outwardly of the top of the table and to prevent spreading of the arms.

3. An article supporting means comprising a tray, a pair of angularly related arms carried by the tray, an L-shaped table engaging member carried by each arm, and a webbing connecting each arm forwardly of the free end thereof and adapted to engage the top of a table and cooperate with said L-shaped table engaging members to hold the tray in horizontal position outwardly of the table.

4. An article supporting means comprising a tray, a pair of right angularly related arms carried by the tray, a pair of L-shaped inwardly extending table engaging members carried by the lower edge of each arm adjacent the free end thereof, and a connecting web connecting each arm together at the upper edge thereof and adjacent the forward end of each arm, said web cooperating with said L-shaped members to hold the tray in substantially horizontal position outwardly of the edge of the table.

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