KNOCK-DOWN BAG OR SIMILAR ARTICLE SUPPORT

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The present invention relates to multiple leg frame stands, tripods, and equivalent supports such as are used for suspending bags and similar articles for filling or dispensing purposes, and has reference in particular to a structural assemblage in this field of endeavor which is of a so-called knock-down type, this to facilitate ready assembling and disassembling as well as collapsing into compact and convenient form for storage and shipment.

As is evident from the foregoing introduction and general statement of the invention, I am not particularly concerned with whether the invention is used as a bag support or for some other purpose, but am primarily interested in the construction of the support itself. It follows, therefore, that an object of the invention is to structurally, functionally, and otherwise improve upon supports in this same field of invention, this through the medium of a carefully chosen selection of parts, said parts being expressly fashioned and designed for interfitting mechanical relationship to provide a sturdy structure when same is set up for use, and to make for more convenient and compact packaging when the structure is collapsed for storage, shipping, or other handling.

More specifically, novelty is thought to reside in a practical and convenient, multiple leg, elevated and supported frame, the frame being of general circular form and made up of separably interconnected sections, the sections having overlapped ends and including means whereby adjacent upper ends of the legs are accommodated, this in such a manner that the legs assemble the frame sections and also thus maintain themselves in place.

Reference being had to the preferred embodiment as herein shown and hereinafter particularly described, it will be seen that further novelty has to do with a circular sectional frame, the sections being of segmental form and provided with alternate slots and staple-like retainers protruding through the slots, the retainers being shaped and arranged to provide keepers, the upper, adjacent ends of the detachable legs being expressly designed to fit into the keepers and against the frame sections in such a manner as to provide for ready erection and disassembling and proper correlation of parts.

Other and more specific features, objects and advantages will become more readily apparent from the following description and the accompanying illustrative drawings.

In the drawings, wherein like numerals are employed to designate like parts throughout the views:

Figure 1 is a perspective view of a bag holder or support constructed in accordance with the principles of the present invention showing one manner in which the same may be actually put into use.

Figure 2 is a top plan view of the circular or ring-like frame per se.

Figure 3 is an elevational view of one of the segmental band sections of said frame.

Figure 4 is a top or edge elevation of the band sections seen in Figure 3.

Figure 5 is an edge-elevation of one of the quickly applicable and removable legs.

Figure 6 is an enlarged fragmentary top edge view employed to bring out certain of the interfitting elements and to better show the overlapped ends of the frame sections and mode of attaching a leg thereto.

As before explained, I am not especially interested whether the structure is employed as a holder for a bag or for some other type of article. However, in the drawings I have shown the same used as a bag holder, the bag A being of open net form for containing and dispensing calcium chloride and there being a basin or pan B located beneath side bag for trapping purposes.

Referring to the frame, this is generally noted in Figure 3 by the numeral 1, said frame being of appropriate sheet material and being here shown as made up of three complementary and duplicate frame sections 2, each of segmental form. As said sections are counterparts of one another, a description of one will suffice for all. To this end, each section as shown in Figures 3 and 4 is provided at one end with an assembling slot 3 and at the opposite end with a struck-out strap 10, said strap being bent to provide a loop-like keeper. The extreme upper edge of the band or section 2, directly above and in alinement with the slot 3, is indented and the indentation defines an outwardly projecting detent 11 which serves in a manner to be hereinafter described. Between the parts 2, 10 and 11, said band is punctured and the punctured portions are struck out to provide tongues 12 which are pointed and constitute spurs to facilitate holding the open mouth of the bag in properly supported position on the complete assembled frame, as shown in Figure 1. It is obvious that when said frame is assembled, the keeper loop 10 at one end extends through and projects beyond the adjacent accommodation or adapter slot 9 at the end of the coacting section. Thus, the coacting ends of the
respective sections overlap and the keeper loops 10 extend through the slots 9 in readiness for the leg-assembling steps. The legs are here shown as of appropriate length. They are duplicates of one another and each leg is denoted by the numeral 13 and is preferably channel-shaped in cross-section and provided with a rubber foot or pad 14 at the bottom. The upper portion of the web, downwardly of the extreme upper end, is fashioned into a projection 15 which constitutes a stop shoulder and which is engageable with the keeper loop as shown in Figure 1. That portion of the leg beyond said shoulder is transversely flattened and laterally bent to provide a retaining and assembling tang 16. This is brought out to better advantage in Figure 6, where it will be seen that in addition to being laterally bent the edge flanges are flattened, as at 17, thus providing between themselves a retention seat for the aforementioned detent 11. Observing, therefore, the overlapping ends of two of the frame sections, it will be seen that the keeper loop 10 protrudes through and beyond the coacting slot 9. Then the tang 16 on the upper end of the leg is pushed through the loop and is brought into resting contact with the adjacent section. The undercut sections 6. The shoulder 15 rests against the lower edge of the keeper loop and the detent 11 seats itself in the retention seat provided between the inbent, flattened flanges 17 on said tang. This interfitting and coacting relationship of parts serves to hold the legs in place and also permits the legs to lock or fasten the frame sections together in properly assembled relationship. It is obvious, too, that by detaching the legs they can be packaged compactly in relation to one another and also the frame may be likewise knocked down and the parts collapsed for compactness and convenience.

In view of the foregoing description taken in conjunction with the accompanying drawings, it is believed that a clear understanding of the construction, operation and advantages of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though I have herein shown and described a preferred embodiment of my invention that the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and within the scope of the appended claims.

I claim:

1. As a new article of manufacture and as a component part of a frame, a segmental band, said band being provided at one end with a slot and at the opposite end with an outstanding loop, said loop constituting a keeper, and said band also having one edge portion formed with an indentation constituting a leg assembling detent and being in alignment with said slot.

2. In a structure of the class described, a sectional frame of circular form, the sections each being of segmental form, each section having a slot at one end and an outstanding loop-like keeper at the opposite end, the adjacent ends of respective sections being disposed in overlapping relation, the loops projecting through the slots for connecting said overlapping ends together, and supporting legs, the upper ends of said legs being laterally offset to provide assembling tangs, said tangs projecting removably into the respective loops, this in a manner to permit the tangs to coat with the loops and adjacent portions of the ends of said sections in assembling the frame and also the legs and to provide a knock down bag or equivalent support.

3. In a structure of the class described, a sectional frame of circular form, there being a plurality of said sections and each section being of segmental form, each section having a slot at one end and an outstanding loop-like keeper at the opposite end, adjacent ends of said sections being overlapped and the loops projecting through the slots for frame assembling and leg accommodation purposes, the respective detents being aligned with the loops, and a plurality of supporting legs, there being one leg for each loop and each leg being channel-shaped in cross-sectional form and having one end laterally bent to provide an offset tang, the flanges of said tang being inbent and then flattened to provide a retention seat therebetween, the tanga fitting into the respective loops and said detents projecting into said seats.

RICHARD L. MANNIX.

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