March 10, 1953 J. T. MAKAR 2,630,923

RACK CLIP FOR DISPLAYING BAGS OF POTATO CHIPS AND THE LIKE

Filed Dec. 15, 1950 2 SHEETS—SHEET 1

Fig. 9

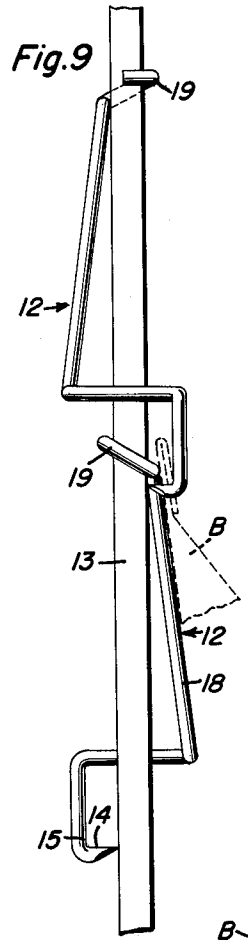


Fig. 1

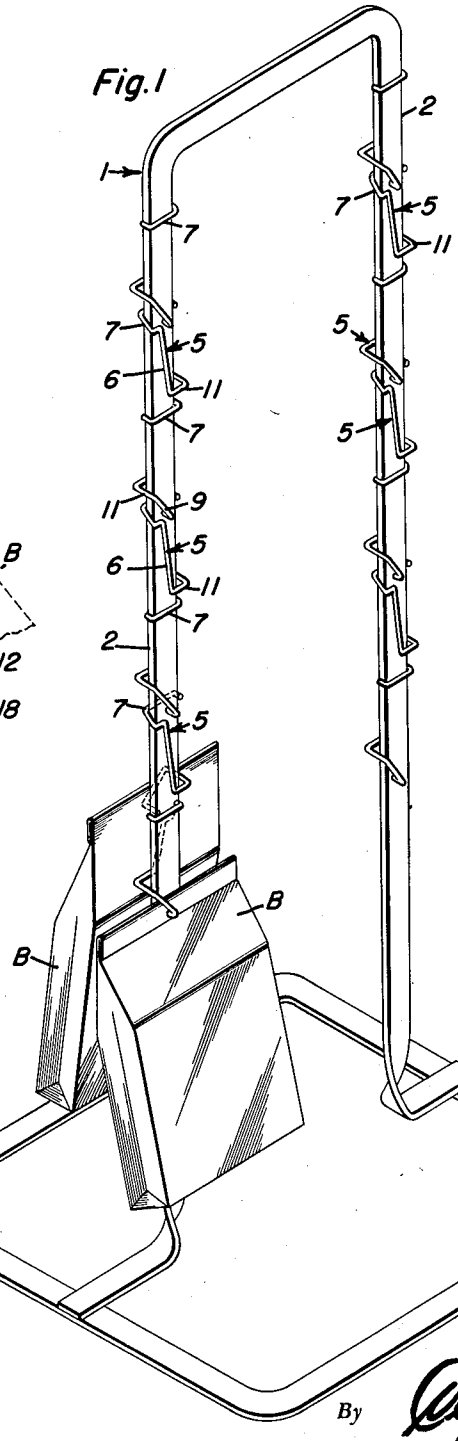


Fig. 8

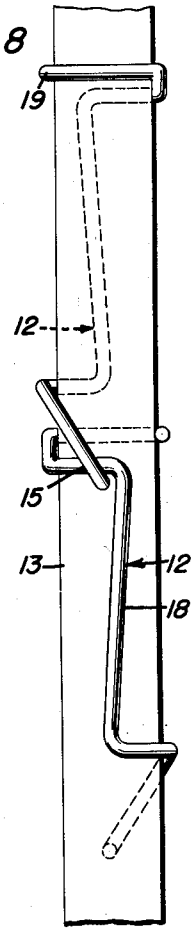


Fig. 10



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Fig.2

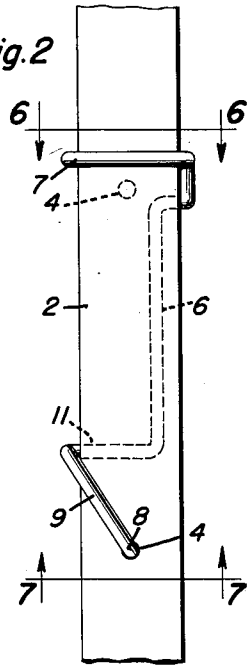


Fig.4

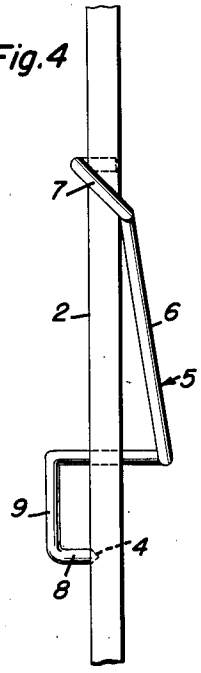


Fig.3

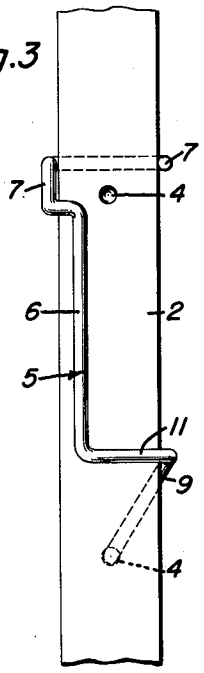


Fig.5

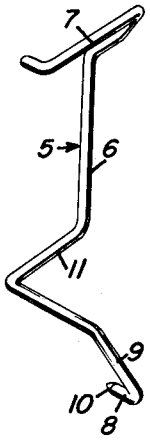
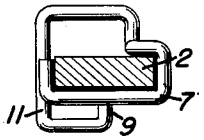


Fig.6



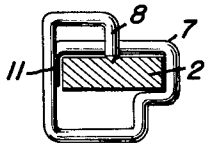


Fig.7

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RACK CLIP FOR DISPLAYING BAGS OF POTATO CHIPS AND THE LIKE

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Application December 15, 1950, Serial No. 200,993

5 Claims. (Cl. 211—71)

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My invention relates to improvements in display racks for bags of potato chips, and other goods, the primary object in view being to provide for suspending a number of such bags at opposite sides of a rack in vertical rows by bag-impaling means securely holding the bags in position for convenient easy grasping and detachment selectively by tearing the same loose from the impaling means with a minimum of damage to the bags in the tearing operation.

Another object is to provide in such a rack improved bag impaling clips designed for interlocking with supporting uprights of a frame to suspend the bags in vertical opposite rows upon opposite sides of the frame with the bags in each row staggered relative to those in the other rows.

Still another object is to provide a display rack for the above purposes which is simple in construction, easy to load with bags, and comparatively inexpensive to manufacture.

Other and subordinate objects within the purview of my invention, together with the precise nature of my improvements will be readily understood when the succeeding description and claims are read with reference to the drawings accompanying and forming part of this specification.

In said drawings:

Figure 1 is a view in perspective of my improved display rack in the preferred embodiment thereof;

Figure 2 is a fragmentary view in side elevation of the frame and one of the clips viewed from one side thereof and drawn to a larger scale;

Figure 3 is a similar view of the same viewed from the other side thereof;

Figure 4 is a view of the same with the frame and clips turned at an angle of 90°;

Figure 5 is a view in perspective of one of the clips detached and drawn to a still larger scale;

Figure 6 is a view in transverse section taken on the line 6—6 of Figure 2;

Figure 7 is a similar view taken on the line 7—7 of Figure 2;

Figure 8 is a fragmentary view in side elevation of a modified embodiment of my invention;

Figure 9 is a view of the modified embodiment turned at an angle of 90°; and

Figure 10 is a fragmentary enlarged view in bottom plan of the tip of the prong of the modified embodiment.

Referring to the drawings by numerals, according to the preferred embodiment of my invention illustrated in Figures 1 to 7, a rack is

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provided comprising a frame 1 of inverted U shape and flat bar metal with side uprights 2 fixed in any suitable manner to a base 3 of rectangular skeleton form and flat bar metal, preferably. The uprights 2 are provided with vertically spaced and aligned conical sockets 4 therein alternating in opposite sides of said uprights and comparatively shallow. A plurality of clips 5 are provided on each upright 2 for coaction with the sockets 4 to suspend bags B of potato chips thereon. The clips 5 being alike, a description of one will suffice for all.

Each clip 5 is formed of comparatively heavy gauge, resilient wire bent upon itself and including a straight shank 6, an upper end hook 7 transverse to said shank, and a lower end, right angled prong 8 having a depending stem 9. The hook 7 and prong 8 are both located at one and the same side of the shank 6 with the prong 8 having a conical tip 10 facing the shank 6. The prong 8 is connected to the lower end of the shank 6 by a right angled lateral bends 11. The hook 7 extends upwardly from the shank 6 and lies in a plane oblique to the axis of the shank 6 for a purpose presently seen. Obviously clips 5 are vertically spaced.

The clips 5 on each upright 2 are attached thereto by springing the hooks 7 apart so that the same may be slipped over the uprights 2 in straddling relation thereto and partly surrounding the same with the shanks 6 of successive clips 5 located on opposite sides of the uprights 2, the bends 11 of successive clips 5 extending across and straddling opposite edges of the uprights 2 to position the prongs of successive clips 5 alternately on opposite sides of the uprights from the shanks 6 for seating of the tips 10 in the sockets 4. The shanks 6 slant downwardly and outwardly of the uprights 2 and are sprung toward the uprights 2, thereby placing the prongs 8 under tension to maintain the same seated in the sockets 4 while also placing the hooks 7 under tension to frictionally bind the same against the sides of the uprights 2. When thus attached, the bends 11 space the stems 9 of the prongs 8 from the sides of the uprights 2 to accommodate a bag B impaled on each tip 10 between the stem 9 of the prong and the uprights 2.

To load the described rack with bags B of potato chips, or other goods, the prongs 8 are pulled out of the sockets 4 by pulling on the stems 9 or by pressing on the shanks 6 at the juncture thereof with the bends 11, so that the sealed upper edges of the bags may be interposed between said prongs 8 and the uprights 2. Then, upon

release of the stems 9, the shanks 6 will spring, or react, away from the uprights 2 to cause the tips 10 to pierce and impale the bags B and the tips 10 to seat in the socket 4. To detach the bags B, it is merely necessary to pull the same downwardly and tear the upper edge of the same loose from the prongs 8, the tear, as will be apparent, being slight and not opening the bags sufficiently to permit escape of the contents thereof while at the same time facilitating further tearing of the bags to open the same.

In the modified embodiment of my invention illustrated in Figures 8, 9 and 10, the clips 12 coact with plane sides on the upright 13 to suspend the bags B, the sockets 4 of the preferred embodiment being eliminated to reduce the cost of manufacture. The clips 12 with the exceptions presently noted are like the clips 5 in construction and arrangement. One exception is that the tip 14 of each prong 15 is bevelled longitudinally, and laterally in opposite directions, to provide a sharp point 16 and a longitudinal cutting edge 17, the point engaging the facing side of the upright 13 when the shank 18 of the clip reacts away from the upright to pierce and impale the bag while the cutting edge 17 cuts through the bag and thus facilitates the impaling operation. Another exception is that the clips 12 are arranged on each upright so that the tip 14 of each prong underlies the hook 19 of the next lower clip 12 so that each hook 19 offsets the sealed upper edge of the bag B from the upright 13 to facilitate piercing of said edge by the tip 14 underlying the hook. Also each tip 14 in this embodiment acts to support the hook 19 of the next lower clip 12 if the latter should slip down.

The foregoing will, it is believed, suffice to impart a clear understanding of my invention without further explanation.

Manifestly, the invention, as described, is susceptible of modification, without departing from the inventive concept, and right is herein reserved to such modifications as fall within the scope of the appended claims.

Having described the invention, what is claimed as new is:

1. A clip for attachment to a bar of rectangular cross section to suspend an article comprising a hook partly surrounding said bar, a shank having said hook on one end thereof and extending longitudinally along one side of the bar, and a right angled prong at the other end of said shank on the opposite side of the bar and having an article impaling tip facing said bar, said shank having a lateral bend connecting the shank to the prong and straddling one edge of the bar to dispose said prong on said opposite side of the bar, said shank being resilient and reactive to bind the hook against said bar and to engage the tip with said bar, whereby said bar and tip form jaws coacting to impale the article on said tip.

2. A clip according to claim 1, said prong including a stem connecting the tip to said bend and being spaced from said opposite sides of the bar by engagement of the tip with said bar to therefore accommodate a portion of the impaled article between said stem and bar.

3. A clip according to claim 1, said bar having a socket therein for seating said tip to facilitate impaling action of said tip.

4. A clip according to claim 1, said tip having a longitudinal cutting edge and a sharp point to facilitate impaling action of said tip.

5. A pair of clips for attachment to a bar of rectangular cross section to each suspend an article, each clip comprising a hook partly surrounding said bar, a shank having said hook on one end thereof and extending longitudinally along one side of the bar, and a right angle prong at the other end of said shank on the opposite side of the bar and having an article impaling tip facing said bar, said shank having a lateral bend connecting the shank to the prong and straddling one edge of the bar to dispose said prong on said opposite side of the bar, said shank being resilient and reactive to bind the hook on said bar and to engage the tip with said bar whereby said bar and tip form jaws coacting to impale the article on the tip, the hook of one clip being disposed between the bend and tip of the other clip to space the article impaled on the tip of the other clip from said bar to facilitate impaling action by the tip of said other clip.

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