Jan. 13, 1970 C. O. LARSON 3,489,382

ARTICLE SUPPORT CONSTRUCTION

Filed March 25, 1968

Fig. 1

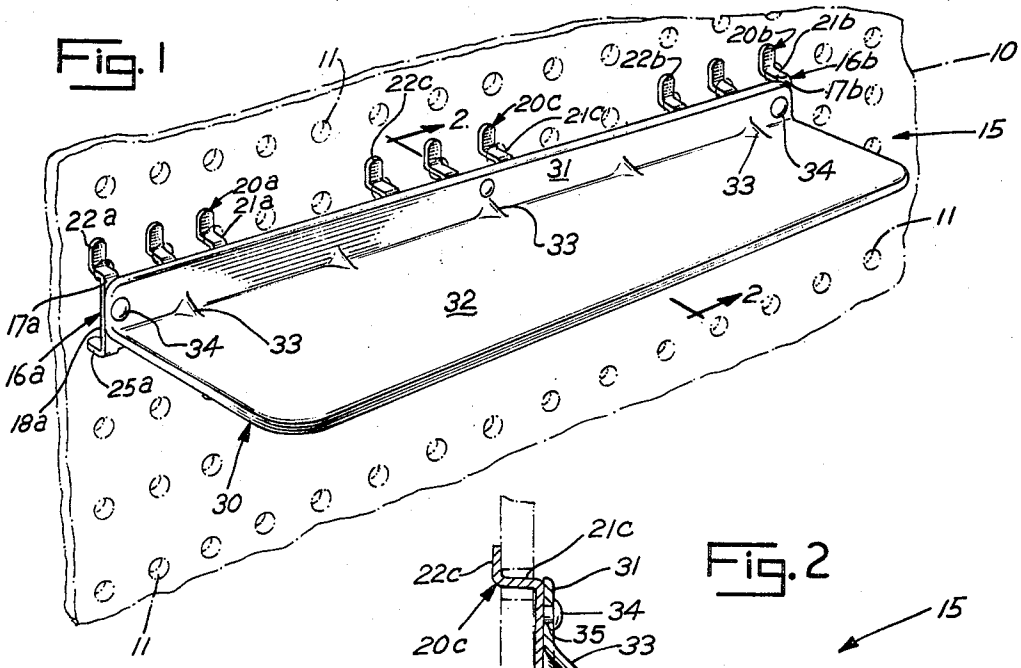


Fig. 2

Fig. 3

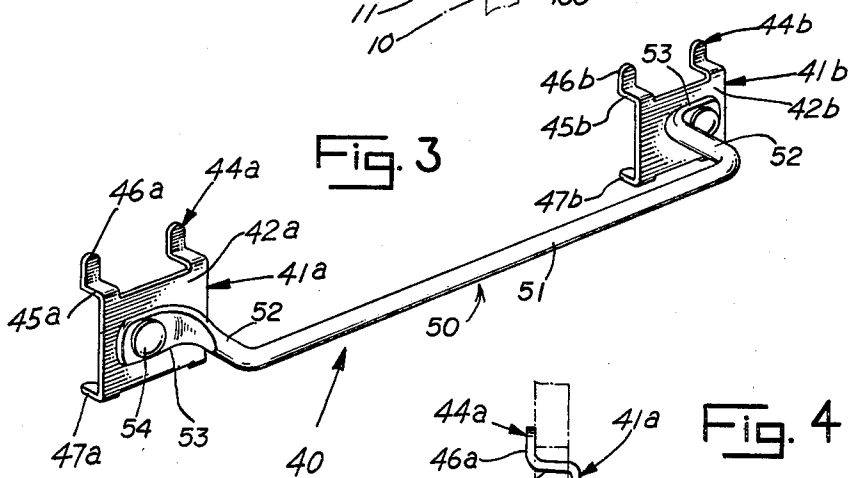
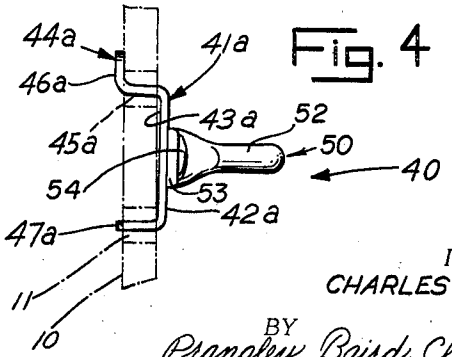


Fig. 4



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ARTICLE SUPPORT CONSTRUCTION

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ABSTRACT OF THE DISCLOSURE

The article support construction is for use on an apertured panel and comprises a pair of bases, at least one mounting prong on the upper edge of each of the bases, each mounting prong including a rearwardly extending first finger and an upwardly extending second finger on the rear end of the first finger and disposed normal thereto, a support such as a shelf or hanger, including an attachment portion and support portion integral with the attachment portion and extending outwardly therefrom, and fasteners connecting the attachment portion to the bases, the first and second fingers cooperating to mount the support on the apertured panel in cantilever fashion.

This invention is directed to article support constructions for use on an apertured panel, and more particularly to an article support construction having either a hanger or a shelf.

In summary, the article support construction incorporating the features of the invention is for use on an upstanding apertured panel having a plurality of holes arranged in equidistantly spaced horizontal rows and vertical columns, the article support construction comprising first and second spaced apart bases each having substantially flat front and rear surfaces, the first base having a pair of edges generally aligned with the corresponding edges of the second base, at least one mounting prong on one edge of the first base and at least one mounting prong on the corresponding edge of the second base, each of the mounting prongs including a first finger extending from the associated rear surface and disposed substantially normal thereto and including a second finger on the outer end of the associated first finger and extending therefrom in a direction opposite to the associated base, the mounting prongs being spaced from one another by a predetermined distance, a support including an attachment portion and a support portion integral with the attachment portion and extending outwardly therefrom, the attachment portion being disposed adjacent the front surfaces of the bases, and fasteners connecting the attachment portion to the bases, the rear surfaces of the bases, respectively bearing in use against the front surface of the associated apertured panel, with the first fingers extending through associated holes in the apertured panel and the second fingers extending upwardly behind the apertured panel, thereby to mount the support on the apertured panel in cantilever fashion.

In a further aspect of the invention, the support comprises a shelf including an attachment flange and a plate on the attachment flange and extending outwardly therefrom, with the fasteners connecting the attachment flange to the bases.

In a still further aspect of the invention, the support comprises a hanger including a support bar carrying a pair of spacer arms having respectively thereon a pair of attachment flanges, the pair of spacer arms being disposed substantially parallel to each other and substantially normal to the support bar, the pair of attachment flanges being disposed in general longitudinal alignment and extending substantially normal to the associated spacer arms and in opposite directions therefrom, with the fasteners respectively connecting the attachment flanges to the bases.

Further features of the invention pertain to the particular arrangement of the parts of the article support construction whereby the above-outlined and additional operating features thereof are attained.

The invention, both as to its organization and method of operation, together with further objects and advantages thereof, will best be understood by reference to the following specification taken in connection with the accompanying drawings, in which:

FIGURE 1 is a perspecitve view of one embodiment of the article support construction incorporating the features of the invention;

FIG. 2 is a cross-sectional view of the article support construction of FIG. 1 along the lines **2—2** thereof;

FIG. 3 is a perspective view of another embodiment of the article support construction; and

FIG. 4 is a side-elevational view of the article support construction of FIG. 3.

Referring now to the drawings, and more particularly to FIGURES 1 and 2 thereof, there is shown an article support construction **15** for use on an aperture panel **10**, the apertured panel **10** being shown in phantom and having therein a plurality of holes **11** arranged in equidistantly spaced horizontal rows and columns. The article support construction **15** comprises first and second end bases **16***a* and **16***b* and a central base **16***c* disposed therebetween. The bases have the same construction and, therefore, in the interest of brevity, only the central base **16***c* will be described. It will be understood, however, that the following remarks are equally applicable to the bases **16***a* and **16***b*. The base **16***c* is stamped from a unitary metal sheet and has a substantially flat front surface **17***c* and a substantially flat rear surface **18***c*. There are provided three mounting prongs **20***c* on one edge of the base **16***c*, namely, the upper edge thereof as viewed in FIGS. 1 and 2. Each of the mounting prongs **20***c* includes a first finger **21***c* extending rearwardly from the rear surface **18***c* and disposed substantially normal thereto and having a length approximately equal to the thickness of the apertured panel **10**. Each of the mounting prongs **20***c* includes a second finger **22***c* on the outer end of the first finger **21***c* and extending therefrom in a direction opposite to the base **16***c*, that is, the second finger **22***c* extends upwardly as viewed in FIGS. 1 and 2. The mounting prongs **20***c* are spaced from one another and from the mounting prongs **20***a* and **20***b* by distances equal to the distance between two of the apertured panel holes **11** in a horizontal row. Three stabilizing prongs **25***c* (only one is shown) are disposed on the lower edge of the base **16***c* and extend rearwardly from the rear surface **18***c* thereof and are disposed substantially normal thereto, the stabilizing prongs **25***c* each being vertically aligned with an associated first finger **21***c* and spaced therefrom by a distance equal to the distance between two of the apertured panel holes **11** in a vertical column.

The article support construction **15** further comprises a shelf **30**, the shelf **30** including an elongated attachment flange **31** which has predetermined longitudinal extent and including a plate **32** having the same longitudinal extent. The plate **32** is disposed on the lower longitudinal edge of the attachment flange **31** and extends substantially normal thereto. Formed at the junction of the attachment flange **31** and the plate **32** is a set of five equally spaced webs **33** to strengthen the junction, the attachment flange **31**, the plate **32** and the webs **33** being formed from a unitary metal sheet. The attachment flange **31** is disposed adjacent to the front surfaces **17***a*, **17***b* and **17***c* of the respective bases, and has three equally spaced holes **35**

therein, the attachment flange **31** being connected to the bases **16***a*, **16***b* and **16***c* by dropping through the holes hot metal which flows between the abutting surfaces of the attachment flange **31** and the bases **16***a*, **16***b* and **16***c*, a round head **34** being formed over each of the holes **35** to give the article support construction **15** an attractive appearance.

In use, the first fingers **21***a*, **21***b* and **21***c* on the respective bases **16***a*, **16***b* and **16***c* extend through associated holes **11** in the apertured panel **10**, the second fingers **22***a*, **22***b* and **22***c* extend upwardly behind the apertured panel, and the rear surfaces of the respective bases **16***a*, **16***b* and **16***c* bear against the front surface of the apertured panel **10**, thereby to mount the shelf **30** on the apertured panel **10** in cantilever fashion. Further, the stabilizing prongs **25***a*, **25***b* (not shown) and **25***c* of the respective bases extend through associated holes **11** in the apertured panel **10** to orient and provide additional support of the article support construction **15**. When the article support construction **15** is thusly mounted on apertured panel **10**, the plate **32** extends generally horizontally and is, therefore, adapted to carry articles thereon.

Referring now to FIGS. 3 and 4, there is shown a further article support construction **40**, the article support construction **40** comprising first and second end bases **41***a* and **41***b*. The bases have the same construction; and, therefore, in the interest of brevity only the first end base **41***a* will be described. It will be understood, however, that the following remarks are equally applicable to the base **41***b*. The base **41***a* is stamped from a unitary metal sheet and has a substantially flat front surface **42***a* and a substantialy flat rear surface **43***a*. There are provided two mounting prongs **34***a* on one edge of the base **41***a*, namely, the upper edge thereof, as viewed in FIGS. 3 and 4. Each of the mounting prongs **44***a* includes a first finger **45***a* extending rearwardly from the rear surface **43***a* and disposed substantially normal thereto and having a length approximately equal to the thickness of the apertured panel **10**. Each of the mounting prongs **44***a* includes a second finger **46***a* on the outer end of the first finger **45***a* and extending therefrom in a direction opposite to the base **41***a*, that is, the second finger extends upwardly as viewed in FIGS. 3 and 4. The mounting prongs **44***a* are spaced from one another and from the mounting prongs **44***b* by distances equal to the distance between two of the apertured panel holes **11** in a horizontal row. Two stabilizing prongs **47***a* are disposed on the lower edge of the base **41***a* and extend rearwardly from the rear surface **43***a* and are disposed substantially normal thereto, the stabilizing prongs **47***a* each being vertically aligned with an associated first finger **45***a* and spaced therefrom by a distance equal to the distance between two of the apertured panel holes **11** in a vertical column.

The article support construction **40** further comprises a hanger **50**, the hanger **50** including a support bar **51** carrying a pair of spacer arms **52** disposed substantially parallel to each other and substantially normal to the support bar **51**. A pair of attachment flanges **53** on the outer ends of the respective spacer arms **52** are disposed in generally longitudinal alignment and extend substantially normal to the associated spacer arms **52** and in opposite directions therefrom, the attachment flanges **53** being disposed adjacent the front surfaces **42***a* and **42***b* of the respective bases. Each of the attachment flanges **53** has a hole (not shown) therein, the attachment flanges **53** being connected to the bases **41***a* and **41***b* by dropping through the holes hot metal which flows between the abutting surfaces of the attachment flanges **53** and the bases **41***a* and **41***b*, a round head **54** being formed over each of the holes to give the article support construction **40** an attractive appearance.

In use, the first fingers **45***a* and **45***b* on the respective bases **41***a* and **41***b* extend through associated holes **11** in the apertured panel **10**, the second fingers **46***a* and **46***b* extend upwardly behind the apertured panel **10**, and the rear surfaces of the associated bases **41***a* and **41***b* bear against the front surface of the apertured panel **10**, thereby to mount the hanger **50** on the apertured panel **10** in cantilever fashion. Further, the stabilizing prongs **47***a* and **47***b* on the respective bases extend through associated holes **11** in the apertured panel **10** to orient and provide additional support of the article support construction **40**. When the article support construction **40** is thusly mounted on the apertured panel **10**, the support bar **51** extends generally horizontally and is, therefore, adapted to carry articles such as a towel or the like.

While there have been described what are at present considered to tbe the preferred embodiments of the invention, it will be understood that various modifications may be made therein.

What is claimed is:

1. An article support construction for use on an upstanding apertured panel having a plurality of holes arranged in equidistantly spaced horizontal rows and vertical columns, said article support construction comprising first and second spaced apart bases each having substantialy flat front and rear surfaces, said first base having a pair of edges generally aligned with the corresponding edges of said second base, a plurality of mounting prongs on one edge of said first base and a plurality of mounting prongs on the corresponding edge of said second base, each of said mounting prongs including a first finger extending from the associated rear surface and disposed substantially normal thereto and including a second finger on the outer end of the associated first finger and extending therefrom in a direction opposite to the associated base, said mounting prongs being spaced from one another by a predetermined distance, a plurality of stabilizing prongs on the edge of said first base opposing said one edge thereof and extending from the rear surface thereof and disposed substantially normal thereto and vertically aligned with the associated first fingers on said first base, a plurality of stabilizing prongs on the edge of said second base opposing said corresponding edge thereof and extending from the rear surface thereof and disposed substantially normal thereto and vertically aligned with the associated first fingers on said second base, a support including an attachment portion and a support portion integral with said attachment portion and extending outwardly forwardly therefrom, said attachment portion being disposed adjacent to the front surfaces of said bases, and fasteners connecting said attachment portion to said bases, said fasteners contacting and being wholly forward the front surface of said bases, the rear surfaces of said bases respectively bearing in use against the front surface of the associated apertured panel, with said first fingers extending through associated holes in the apertured panel and said second fingers extending upwardly behind the apertured panel, thereby to mount said support on the apertured panel in cantilever fashion, said stabilizing prongs extending in use into associated holes in the apertured panel to orient and provide additional support for the article support construction.

2. An article support construction for use on an upstanding apertured panel having a plurality of holes arranged in equidistantly spaced horizontal rows and vertical columns, said article support construction comprising first and second spaced apart bases each having substantially flat front and rear surfaces, said first base having a pair of edges generally aligned with the corresponding edges of said second base, a plurality of mounting prongs, on one edge of said first base and a plurality of mounting prongs on the corresponding edge of said second base, each of said mounting prongs including a first finger extending from the associated rear surface and disposed substantially normal thereto and including a second finger on the outer end of the associated first finger and extending therefrom in a direction opposite

to the associated base, said mounting prongs being spaced from one another by a predetermined distance, a plurality of stabilizing prongs on the edge of said first base opposing said one edge thereof and extending from the rear surface thereof and disposed substantially normal thereto and vertically aligned with the associated first fingers on said first base, a plurality of stabilizing prongs on the edge of said second base opposing said corresponding edge thereof and extending from the rear surface thereof and disposed substantially normal thereto and vertically aligned with the associated first fingers on said second base, a shelf including an attachment flange and a plate integral therewith and extending outwardly forwardly therefrom and substantially normal thereto, said attachement flange being disposed adjacent to the front surfaces of said bases, and fasteners connecting said attachment flange to said bases, said fasteners contacting and being wholly forward the front surface of said bases, the rear surfaces of said bases respectively bearing in use against the front surface of the associated apertured panel, with said first fingers extending through associated holes in the apertured panel and said second fingers extending upwardly behind the apertured panel, thereby to mount said shelf on the apertured panel in cantilever fashion, said stabilizing prongs extending in use into associated holes in the apertured panel to orient and provide additional support for the article support construction.

3. The article support construction set forth in claim 2, wherein said attachment flange is elongated and has a predetermined longitudinal extent, and said plate is elongated and has a longitudinal extent substantially equal to that of said attachment flange, said plate being disposed on one of the longitudinal edges of said attachment flange and extending substantially normal to the front surface thereof.

4. The article support construction set forth in claim 2, and further comprising a plurality of spaced-apart reinforcing webs fromed at the junction of said attachment flange and said plate to strengthen said junction.

5. The article support construction set forth in claim 4, wherein a unitary metal sheet is bent to form said attachment flange and said plate and said webs.

6. The article support construction set forth in claim 2, and further comprising a third base having substantially flat front and rear surfaces and a pair of edges generally aligned with the corresponding edges of said first and second bases, a plurality of mounting prongs on the edge of said third base that is aligned with said one edge of said first base, said mounting prongs including a first finger extending from the rear surface of said third base and disposed substantially normal thereto and including a second finger on the outer end of said first finger and extending therefrom in a direction opposite to said third base, said third base being disposed between said first and second bases and lying adjacent to the attachment flange of said shelf, and an additional fastener connecting said attachment flange to said third base.

7. An article support construction for use on an upstanding apertured panel having a plurality of holes arranged in equidistantly spaced horizontal rows and vertical columns, said article support construction comprising first and second spaced apart bases each having substantially flat front and rear surfaces, said first base having a pair of edges generally aligned with the corresponding edges of said second base, a plurality of mounting prongs on one edge of said first base and a plurality of mounting prongs on the corresponding edge of said second base, each of said mounting prongs including a first finger extending from the associated rear surface and disposed substantially normal thereto and including a second finger on the outer end of the associated first finger and extending therefrom in a direction opposite to the associated base, said mounting prongs being spaced from one another by a predetermined distance, a plurality of stabilizing prongs on the edge of said first base opposing said one edge thereof and extending from the rear surface thereof and disposed substantially normal thereto and vertically aligned with the associated first fingers on said first base, a plurality of stabilizing prongs on the edge of said second base opposing said corresponding edge thereof and extending from the rear surface thereof and disposed substantially normal thereto and vertically aligned with the associated first fingers on said second base, a hanger including a support bar carrying a pair of spacer arms having respectively thereon a pair of attachment flanges, said pair of spacer arms being disposed substantially parallel to each other and substantially normal to said support bar, said pair of attachment flanges being disposed in general longitudinal alignment and extending substantially normal to the associated spacer arms and in opposite directions therefrom and being disposed adjacent the front surfaces of said bases, and fasteners respectively connecting said attachment flanges to said bases, said fasteners contacting and being wholly forward the front surface of said bases, the rear surfaces of said bases respectively bearing in use against the front surface of the associated apertured panel with said first fingers extending through associated holes in the apertured panel and said second fingers extending upwardly behind the apertured panel, thereby to mount said hanger on the apertured panel in cantilever fashion, said stabilizing prongs extending in use into associated holes in the apertured panel to orient and provide additional support for the article support construction.

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211—90, 105.2; 248—220.5