This invention relates to folding racks for displaying merchandise, placards, charts and the like and more particularly to collapsible folding racks for supporting and displaying books and bound or unbound serial collections of charts, wall paper samples, textile fabrics or like sheet materials.

Easels and display stands heretofore available have been bulky, cumbersome and inconvenient. Such devices have presented many difficulties in manufacture, shipping, storage, setting up and moving, and such devices have generally proved unsuitable for vertical or inclined display of collections of large sheet material such as books of charts or wallpaper samples, stacks of textile fabric samples, and the like.

Accordingly, the principal object of the invention is to provide display racks for sheet materials which are convenient and economical to manufacture, store and transport.

Another object of the invention is to provide display racks of the above character which are conveniently foldable and easily set up for use.

A further object of the invention is to provide display racks of the above character capable of supporting and displaying heavy collections of sheet materials, charts, diagrams, textiles, wallpaper samples, or the like.

Another object of the present invention is to provide display racks of the above character for convenient removal of certain sheets or groups of sheets in such a collection, and the substitution of new sheets therefor in serial relationship without disturbing the remaining collection of sheets.

A further object of the invention is to provide display racks of the above character affording revolving support for such collections of sheet material for convenient display of each sheet in such collection.

Other objects of the invention will in part be obvious and will in part appear hereinafter.

The invention accordingly comprises the features of construction, combinations of elements, and arrangement of parts which will be exemplified in the constructions hereinafter set forth, and the scope of the invention will be indicated in the claims.

For a fuller understanding of the nature and objects of the invention, reference should be had to the following detailed description taken in connection with the accompanying drawings, in which:

FIGURE 1 is a perspective view of a display rack demonstrating one embodiment of this invention;

FIGURE 2 is a perspective view of such a display rack bearing a bound collection of sheet material in display relationship thereto;

FIGURE 3 is a fragmentary vertical sectional view of a portion of the embodiment of the invention illustrated in FIGURES 1 and 2 showing the clamping mechanism;

FIGURE 4 is a fragmentary perspective view of a revolving clamping mechanism employed in another embodiment of the invention;

FIGURE 5 is a fragmentary exploded perspective view of the mechanism shown in FIGURE 4 in its unclamped position; and

FIGURE 6 is a vertical sectional view of the mechanism shown in FIGURE 4 in its clamped position.

Similar reference characters refer to similar parts throughout the several views of the drawing.
ring 60, this ring may be moved axially to shoulder 68 as shown in FIGURE 5 and the wedge-shaped clamping members 58 may then be radially displaced to the positions shown in FIGURE 5 for removal of the group of sheets 66 and the substitution of one or more new groups of sheets. When the desired collection of sheets is in position between the radially converged clamping members 58, the clamping rings 60 may be returned to the position shown in FIGURE 4 to hold the sheets in position as shown.

With the clamping mechanism shown in FIGURE 3, partial removal of portions of collections 42 is conveniently accomplished by leaving one bolt 38 temporarily in position while removing and substituting the desired sheets with apertures 40 in registration for loose engagement with another bolt 38, and then completing the substitution for the first bolt 38.

The frames 10 and 12 may be fabricated of lightweight metal members, such as a length of aluminum tubing, and the display racks of the present invention thus offer the important advantages of extremely light weight, combined with great convenience in folding, storing, unfolding and setting up in a desired location for display purposes. The different securing mechanisms shown in FIGURES 3 through 6 afford convenient means for mounting and removing collections of sheet material for display as shown in FIGURE 2, and for the partial removal and substitution of parts of such collections of sheet material when the entire collection need not be changed. The revolving clamping mechanism shown in FIGURES 4 through 6 provides the additional advantages of convenient display of multi-sheet collections of display items while avoiding a bulky upwardly projecting roll 54 of folded back sheets as shown in FIGURE 2.

It will thus be seen that the objects set forth above, among those made apparent from the preceding description, are efficiently attained and, since certain changes may be made in the above constructions without departing from the scope of the invention, it is intended that all matter contained in the above description or shown in the accompanying drawings shall be interpreted as illustrative and not in a limiting sense.

It is also to be understood that the following claims are intended to cover all of the generic and specific features of the invention herein described, and all statements of the scope of the invention which, as a matter of language, might be said to fall therebetween.

I claim:

1. A folding display rack for a collection of sheet material comprising in combination a main frame including two substantially upright side members; a rear frame having two upwardly projecting members pivotally joined to said main frame side members; positioning braces pivotally joined to said main frame side members and adapted for engagement with said rear frame, and a sheet supporting means for sheet material rotatably supported by the upper ends of said main frame side members.

2. A folding display rack for a collection of sheet material comprising in combination a main frame including two side members and a plurality of transverse members joining said side members and holding them in spaced relationship; a rear frame having two upwardly projecting members pivotally joined to said main frame side members; positioning braces pivotally joined to said main frame side members and adapted for removable engagement with said rear frame; a sheet supporting assembly including a plurality of radially withdrawable wedge-shaped members adapted to be clamped in radially converged relationship gripping said sheet material, clamping means around said wedge-shaped members, and a pair of socket members mounted at the upper ends of said main frame side members and disposed in facing relationship rotatably supporting said sheet supporting assembly therebetween.

References Cited in the file of this patent

UNITED STATES PATENTS

674,069 Snively May 14, 1901
770,589 Koll Sept. 20, 1904
1,021,976 Ferry Apr. 2, 1912
1,086,746 Babbitt Feb. 10, 1914
1,276,161 Beard Aug. 20, 1918
1,850,647 Whitcomb Mar. 22, 1932
2,334,785 Mitchell Nov. 23, 1943
2,526,376 London Oct. 17, 1950
2,764,381 Anderson Sept. 25, 1956
2,880,879 Best Apr. 7, 1959