Oct. 18, 1927. 1,646,305

W. F. MEYERS

DISPLAY STAND

Filed Aug. 1, 1923

Fig. 1.

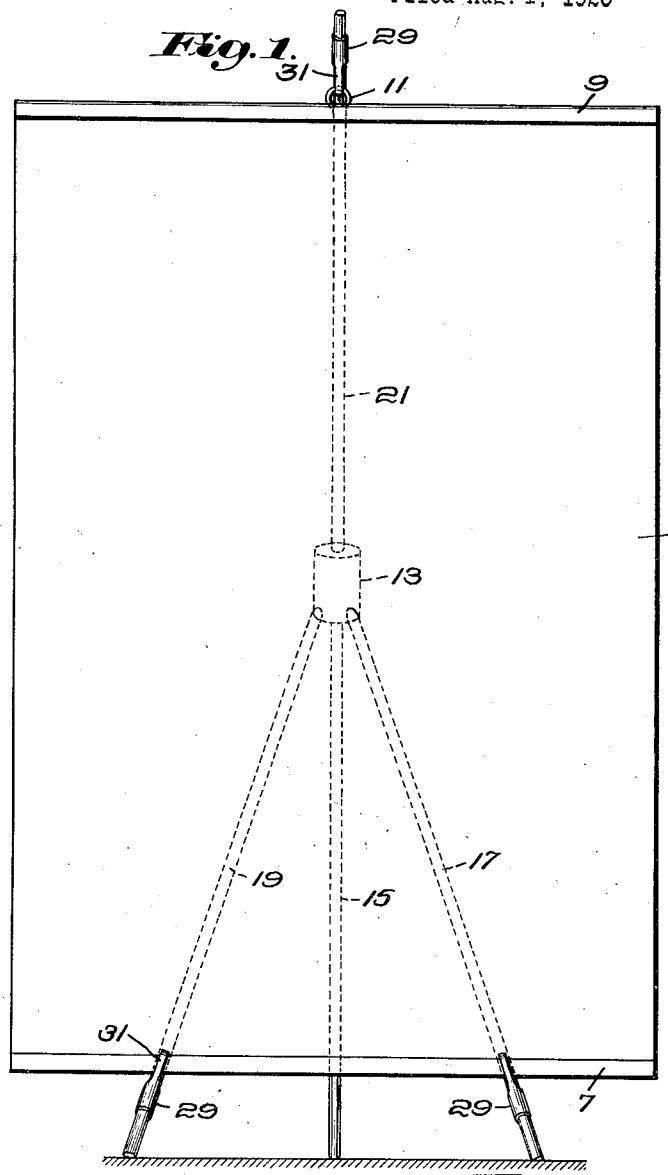


Fig. 2.

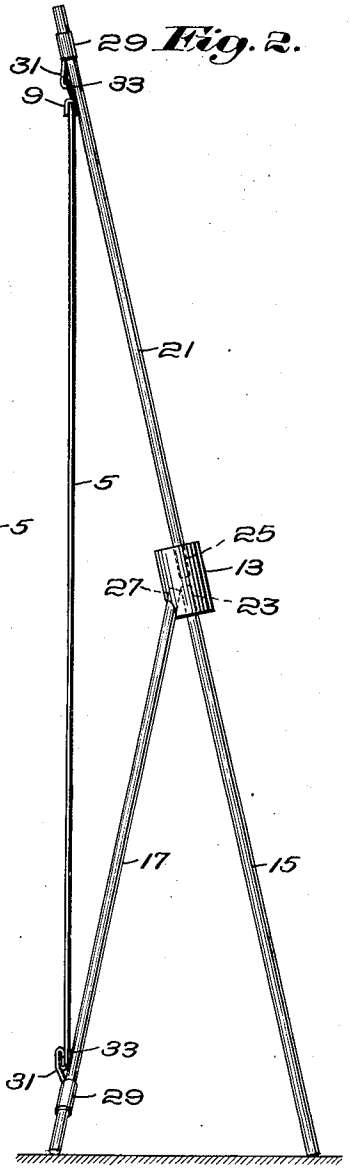


Fig. 3.

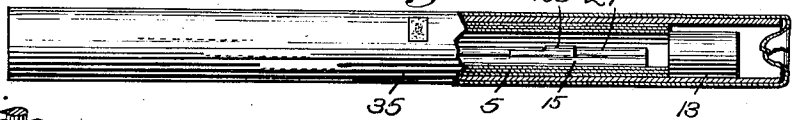
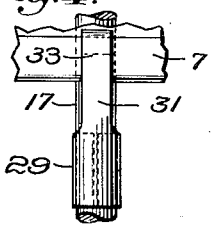


Fig. 4.



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UNITED STATES PATENT OFFICE.

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DISPLAY STAND.

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This invention has to do with a stand or easel adapted to hold a sheet in a generally upright position.

My invention will best be understood by reference to the following description of an exemplary embodiment thereof shown in the accompanying drawings, wherein:

Fig. 1 is a front elevation of the stand with a sheet secured thereto;

Fig. 2 is a side elevation;

Fig. 3 is a partly sectional view illustrating the parts of the stand disassembled and packaged for shipment together with the sheet; and

Fig. 4 is a detail in front elevation of the means for securing the sheet in position.

The embodiment of my invention herein shown by way of illustration is an example of a light, cheaply constructed stand which may be readily assembled and disassembled and which is adapted to be shipped in a package with the sheet which it serves to hold extended for display purposes.

Referring to the drawings, the form of the invention shown is adapted to sustain in a general upright position a sheet 5, which may bear on its face a picture or letter-press or both, and which may be provided along its ends with metal bindings 7 and 9 crimped about the same, the upper binding 9 being provided with a suspending eye 11. This construction is common in various types of advertising posters, calendars and the like.

The knock-down display stand may comprise a hub 13, which is herein shown as a cylindrical block of wood but the word is used with no necessary connotation of shape or material, and this hub is provided with sockets in which may be removably fitted a number of rods adapted to form a stand and a support. In the preferred and simple embodiment of the invention herein shown I provide four such rods 15, 17, 19 and 21 in the form of light straight sticks or dowels which for convenience and economy in manufacture and to simplify the assembly of the stand may be all of equal length as shown. The block which forms the hub 13 may be provided with axial sockets 23 and 25 which receive the rods 15 and 21 respectively and two oblique diverging sockets 27 in which are fitted the rods 17 and 19. The rods 15, 17 and 19 form a tripod stand while the rod 21 forms an upwardly extending arm which is in a plane oblique to the plane of the legs 17 and 19 of the tripod, the three rods 17, 19 and 21 lying along the sides of a trihedral angle and constituting a spider between the arms of which the sheet 5 may be extended, as best shown in Fig. 2, to be supported in a generally upright position spaced forwardly from the hub 13.

Suitable means may be provided for detachably securing the sheet to the arms of the spider and preferably such means provide for tensioning the sheet in the desired position. Referring to Fig. 4, I have there shown a suitable attaching device comprising a split sleeve 29 of thin metal which is clamped around a rod and is retained frictionally in position thereon but may be slid along as desired and this sleeve is provided with suitable means for engaging the sheet to be extended, which means in the present instance take the form of a hook 31 having an inwardly facing bill portion which may be engaged with one of the metallic bindings 7 or 9 in the manner illustrated. When the sheet is not engaged the bill of the hook lies against the rod and is guarded so that it will not catch exterior objects.

In the form of the invention shown all three rods of the spider are provided with split sleeves 29. The hub and the sticks being assembled in the manner shown in Fig. 2, the hook carried by the arm 21 may be engaged with the eye 11 on the sheet and the hooks carried by the arms 17 and 19 engaged with the binding 7 and the sheet 5 may then be drawn out tight for display purposes by either sliding downwardly the two sleeves on the legs 17 and 19 or sliding upwardly that on the arm 21. Obviously this result might be obtained by provision for such tensioning movement either at the top or the bottom but I prefer to utilize the same engaging means on all arms of the spider, particularly as it may serve to make them interchangeable when the stand is assembled. Of course, the sleeves on any of the arms may be slid inwardly toward the arm to facilitate the engagement of the hooks with the bindings in the first instance. It will be clear from Fig. 2 that because of the oblique disposition of the rods the tension of the sheet has relatively little tendency

to disturb the adjusted position of the sleeves 29.

In Fig. 3 I have shown how the stand in disassembled position may be shipped in an ordinary mailing tube 35 together with the rolled up sheet which it is designed to support. The rods or sticks 15, 17, 19 and 21 are straight and may be carried inside the rolled up sheet while the hub 13 occupies a small space at the end thereof.

I have described in detail the particular form of my invention shown by way of example in the accompanying drawings. Obviously the particularity of the description has had for its purpose the clear explanation of the particular form of device shown and its detailed character is not to be taken as a limitation of the scope of the invention.

What I claim as new and desire to secure by Letters Patent I shall express in the following claims:

1. A knock-down stand or easel for holding a sheet extended in an upright position and adapted to be stored and shipped with the rolled sheet comprising a block having sockets therein, straight sticks adapted to be removably fitted to said sockets and when fitted providing legs and also forming a spider of which certain of the legs form a part and means carried by the sticks forming the spider for detachably extending the sheet between the same.

2. A structure of the class described comprising a block having longitudinal sockets in its opposite ends and two diverging oblique sockets in its sides and a set of straight sticks adapted to be removably fitted into the sockets to form a support and a stand.

3. A knock-down stand or easel comprising a hub having sockets and a set of straight rods adapted to be removably inserted into said sockets, certain of said rods when the parts are assembled forming the arms of a spider and provided with means whereby a sheet may be extended between the arms of the spider for display in a substantially upright position and certain of the rods, including an arm of the spider, forming a set of supporting legs.

4. A knockdown stand or easel comprising a socketed hub, rods removably fitting the sockets therein, three of said rods forming a tripod, and three lying along the sides of a trihedral angle to support in a substantially upright extended position a sheet attached thereto.

5. A knock-down display stand or easel comprising a hub, four straight rods removably attachable to the hub, three of said rods forming a tripod and two of the three and the fourth forming a spider to support a flexible sheet and means on the rods forming said spider for attachment of the sheet thereto and comprising on one or more rods sleeves slidable therealong and having means for engaging the sheet to tension the same.

6. A support for holding a sheet for display comprising a set of arms lying along the edges of a polyhedral angle and means for stretching a sheet between the arms to subtend the angle comprising on one or more of the arms a sleeve embracing the same and slidably adjustable longitudinally of the arm but obliquely to the plane of the sheet, said sleeve having a hook to engage the sheet provided with a bill facing inward toward the arm which carries it.

7. A knock-down stand or easel comprising a hub having four straight rods socketed therein and diverging therefrom, three of which form a tripod and the fourth extending obliquely to the plane of two of the legs of the tripod whereby a sheet extended between said two legs and the fourth rod is supported away from the hub.

8. A support for holding a sheet for display comprising a set of arms lying along the edges of a polyhedral angle and means for stretching a sheet between the arms to subtend the angle comprising on one or more of the arms a sleeve embracing the same and slidably adjustable longitudinally of the arm but obliquely to the plane of the sheet, said sleeve having means to engage and draw on the sheet.

In testimony whereof, I have signed my name to this specification.

WALTER F. MEYERS.