March 18, 1958 H. E. READY, JR 2,827,176

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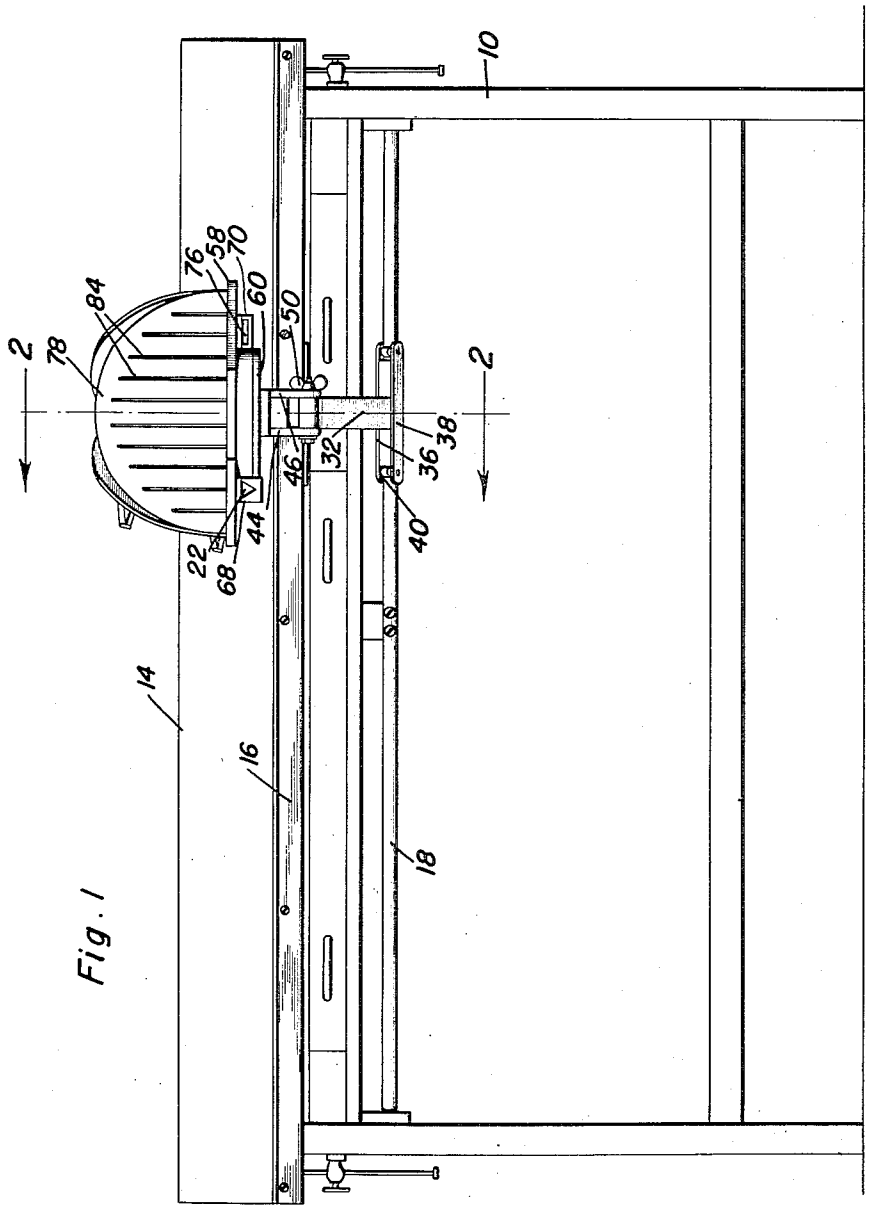


Fig. 1

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Fig. 8

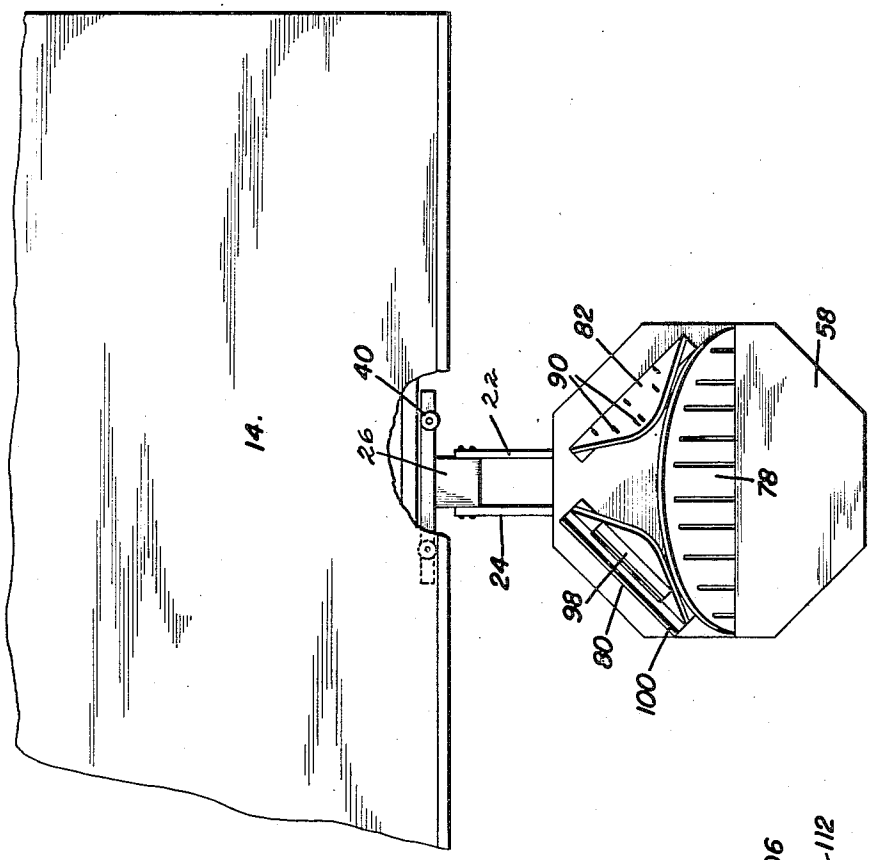
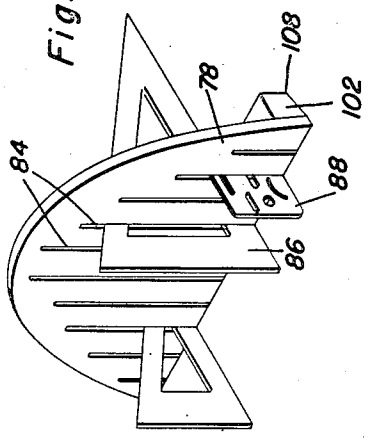


Fig. 6



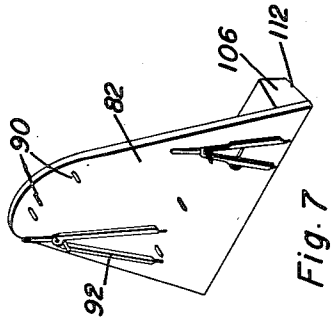


Fig. 7

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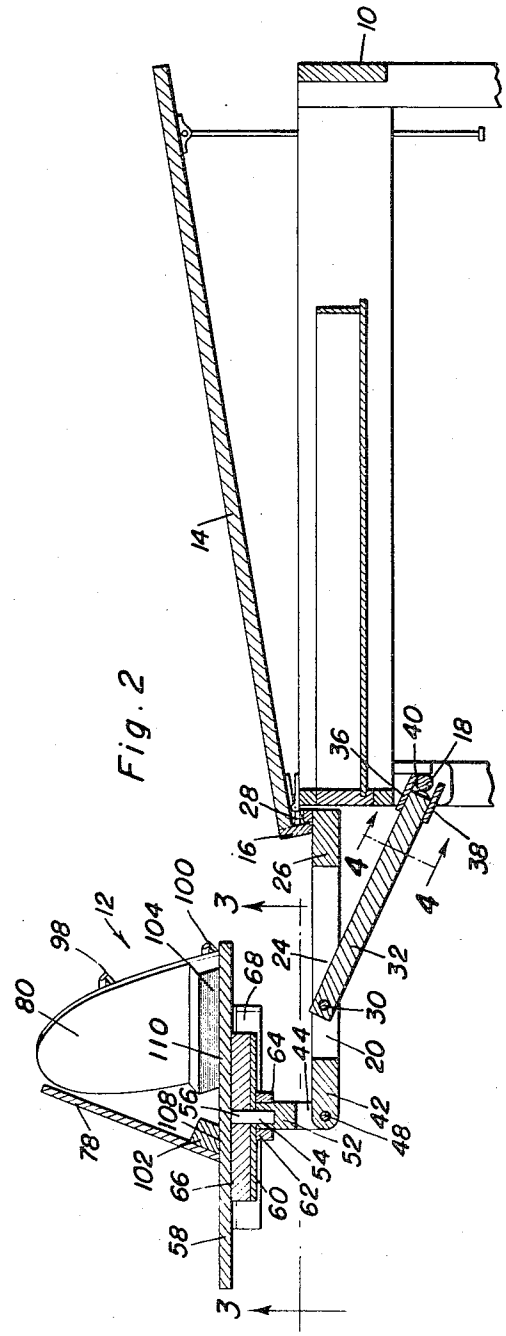


Fig. 2

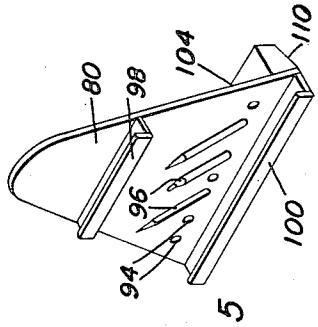


Fig. 5

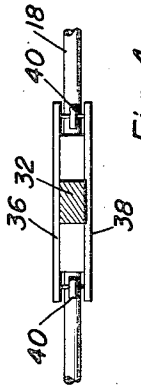


Fig. 4

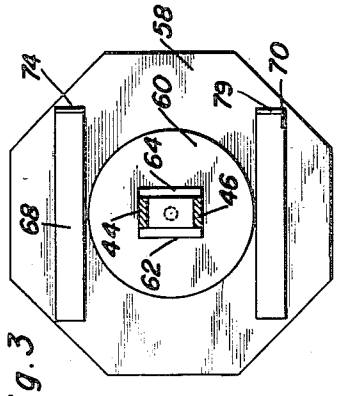


Fig. 3

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2,827,176

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Application June 28, 1954, Serial No. 439,577

1 Claim. (Cl. 211—86)

This invention relates to an attachment for a drafting table and more particularly to a rack for supporting in a convenient manner substantially all the necessary drafting tools as may be required.

As is well known, when drafting or designing, it is of paramount importance to obtain ready access to the various drawing instruments being utilized. If these drawing instruments are deposited in drawers or the like, the various instruments will not be all accessible with any degree of convenience and there is the possibility that various instruments and implements will become scarred, damaged, or soiled by contact with other of the instruments. The present invention accomplishes its primary object by providing means whereby the instruments can all be conveniently located in a manner so that they are readily accessible, free from damage, clean and unscratched, and therefore, ready for use at all times.

A further object of the invention resides in the provision of a rack adapted for attachment to a drafting table or the like which supports various drafting implements and instruments in a manner whereby the rack is longitudinally adjustable with respect to the table, angularly adjustable with respect to the table, and may be rotated so as to be horizontally adjustable for ready access to a particular implement.

Still further objects and features of this invention reside in the provision of a rack that is strong and durable, simple in construction and manufacture, which can be readily attached in any convenient manner to various existing drafting tables and the like, and which is effective in operation.

These, together with the various ancillary objects and features of the invention which will become apparent as the following description proceeds, are attained by this rack, a preferred embodiment of which has been illustrated in the accompanying drawings, by way of example only, wherein:

Figure 1 is a side elevational view of the rack as operatively installed on a drafting table;

Figure 2 is a vertical sectional view as taken along the plane of line 2—2 in Figure 1 illustrating the construction of the longitudinal mounting means used in the invention;

Figure 3 is a sectional view as taken along the plane of line 3—3 in Figure 2 illustrating the construction of the mounting plate and depending supports for rulers;

Figure 4 is a verical sectional detailed view as taken along the plane of line 4—4 in Figure 2 illustrating the roller means utilized in attaching the rack to the drafting table;

Figure 5 is a perspective view of one of the mounting trays as is utilized for supporting writing instruments;

Figure 6 is a perspective view of another one of the mounting trays provided with support slots for drafting implements;

Figure 7 is a perspective view of another of the trays used for supporting drafting instruments; and

Figure 8 is a plan view of the invention.

With continuing reference to the accompanying drawings wherein like reference numerals refer to similar parts throughout the various views, reference numeral **10** generally designates a conventional drafting table on which the rack comprising the present invention and generally indicated by reference numeral **12** is adapted

to be installed. The table **10** may be provided with an angularly extending top **14** for providing a more convenient working surface for a draftsman.

The rack **12** is mounted on the table **10** by means of a longitudinally extending strip **16** which is affixed to the table top **14**. Further, a longitudinally extending mounting rod **18** is also secured to the table **10** and extends between the spaced legs thereof.

The rack **12** includes a mounting bar **20** including a pair of spaced side pieces **22** and **24** which carry a block **26**. The block **26** carries wheels **28** and extends between the strip **16** and the rest of the table **10** to slidably mount the mounting bar **20** while restraining the mounting bar **20**.

Pivotally mounted on a pin **30** is a support brace **32**. The pin **30** is threaded and a wing nut (not shown) is provided for locking the brace **32** is an angularly selected position relative to the mounting bar **20**. Carried by the brace **32** is a pair of plates **36** and **38** which have wheels, as at **40**, mounted therebetween. The wheels **40** are adapted to engage the rod **18** utilizing the rod **18** as a rail.

Secured between the side members **24** and **22** there is a mounting piece **42** forming a portion of the mounting bar **20**. A pair of fulcrum arms **44** and **46** are pivotally adjustably attached to the assembly mounting piece **42** by means of a pin **48** which is lockingly held in place by means of a wing nut **50** threadedly secured on the pin **48**. The fulcrum arms **44** and **46** carry a filler piece **52** therebetween which is recessed, as at **54**, for reception of the pin **56** depending from a mounting plate **58**. Further, an apertured disk **60** is supported by a pair of spaced bars **62** and **64** secured to the filler piece **52**. The pin **56** extends through the disk **60** and through a support **66** depending from the mounting plate **58**. In this manner, the mounting plate **58** is rotatable with respect to the disk **60** and the fulcrum arms **44** and **46**.

On either side of the disk **60** there are provided ruler supporting members **68** and **70**. The ruler holder **68** may be formed in any suitable manner with a triangular-shaped cavity **72** therein and is provided with a stop block **74** for limiting the extent of insertion of the ruler into the recess **72**, thereby maintaining the ruler readily available. Likewise, the ruler holder **70** may be provided with a substantially rectangular-shaped recess **76** therein also provided with a stop **79** for limiting the extent of insertion of the ruler into the recess **76**.

Mounted on the mounting plate **58** are a plurality of supporting trays **78**, **80** and **82**. The supporting tray **78** can be best seen in Figure 6, and is provided with a plurality of different sized, vertically extending slots **84** therein for reception of such drafting implements as triangles **86**, erasing shield **88**, French curves (not shown) or the like.

Referring to Figure 7, it will be seen that herein the tray **82** is shown. The tray **82** is provided with a plurality of pins **90** which are provided for supporting drafting instruments, as at **92**.

The tray **80**, shown in Figure 5, is provided with a plurality of angularly extending recesses **94** therein for reception of writing instruments **96** and additionally has substantially L-shaped or angle-shaped shelves **98** and **100** affixed thereto for supporting such items as erasers and the like.

Each of the trays **78**, **80** and **82** has support blocks **102**, **104**, and **106** appended thereto which have angulated lower surfaces **108**, **110** and **112**, respectively. These angulated lower surfaces afford means of mounting the trays **78**, **80** and **82** at a desired angle whereby the various implements and instruments may be readily viewed and obtained.

In use, to remove the instruments from the table **14**

and place the various instruments on the rack is a simple problem due to the fact that the entire rack may be slid from one side of the table to another and since the entire mounting plate and assembled trays may be raised or lowered, utilizing the brace **32** and its pivotal connection to angularly dispose the support bar **20**. Further adjustment of the pin **48** permits the tray to be maintained at a particular angle and height. It is to be recognized that the mounting plate **58** will act as a turntable, permitting ready access to each of the trays.

Further, it is very easy for the draftsman to select a given implement, instrument or the like from the trays for such use as may be necessary.

From the foregoing, the construction and operation of the device will be readily understood and further explanation is believed to be unnecessary. However, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction shown and described, and accordingly, all suitable modifications and equivalents may be resorted to, falling within the scope of the appended claim.

What is claimed as new is as follows:

An adjustable rack for use on a drafting table comprising a mounting bar attached to a drafting table, roller means attached to said mounting bar and slidably engaging an angularly disposed longitudinally extending strip depending from the front of said drafting table and horizontally spaced from the front edge of said table, a

longitudinal rod attached to the drafting table vertically spaced from and below said strip, a support brace angularly adjustably pivotally attached to said mounting bar and including a pair of plates, said plates underlying and overlying said rod respectively, roller means carried by said brace slidably engaging the front of said rod, at least one fulcrum arm adjustably pivotally attached to said mounting bar, a disk carried by said arm, a mounting plate rotatably mounted overlying said disk, and a plurality of angularly upwardly and convergingly extending racking trays attached to said mounting plate, said racking trays being adapted to receive and support drafting instruments.

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