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F. H. SWANSON

1,786,038

APPARATUS FOR MAP DISPLAY

Filed Oct. 7, 1927

Fig. 1

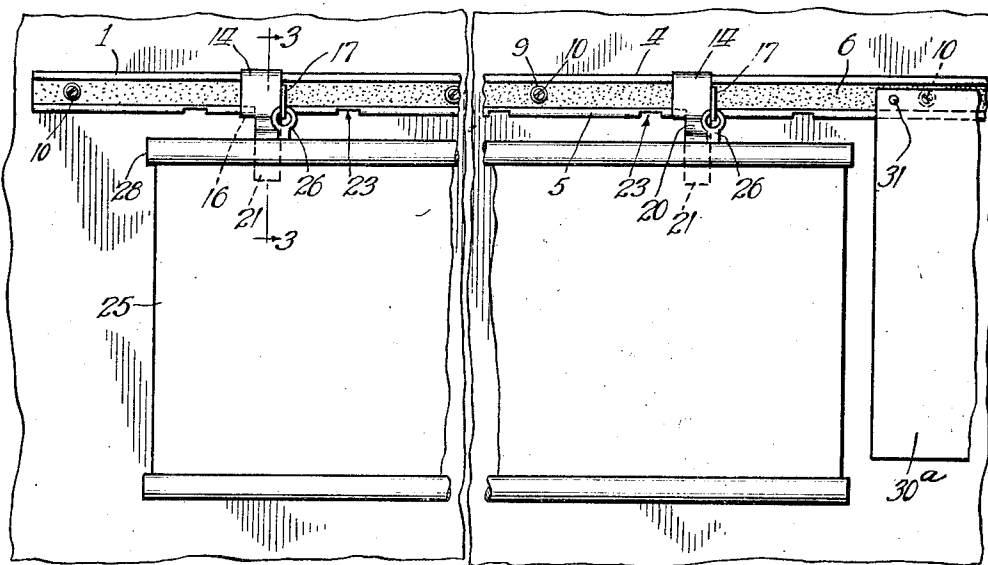


Fig. 2

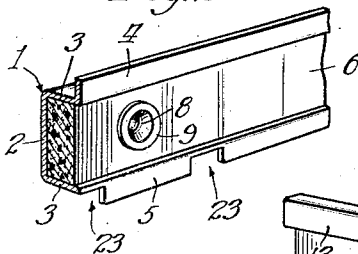


Fig. 5

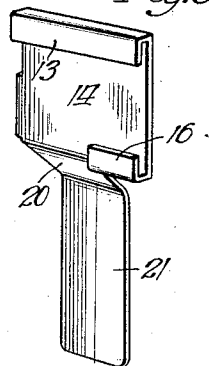


Fig. 4

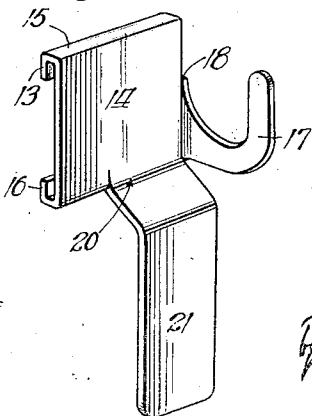


Fig. 3

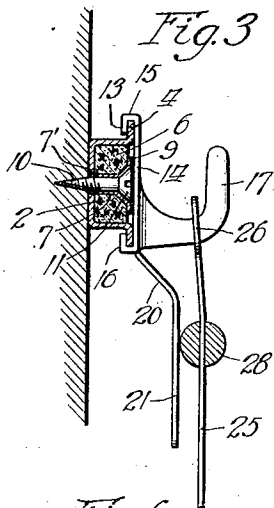
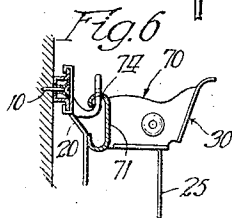


Fig. 6



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UNITED STATES PATENT OFFICE

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APPARATUS FOR MAP DISPLAY

Application filed October 7, 1927. Serial No. 224,650.

My invention relates in general to methods and apparatus for conveying information and giving instruction through the medium of maps, charts and the like, and more particularly to a combination moulding strip and suspension clip structure for slidably supporting maps and charts.

An object of the invention is to provide an adjustable mounting for principal maps or display sheets either mounted or unmounted; to provide a mounting for minor or temporary sheets; and to provide means by which the minor or temporary sheets may be definitely secured in proper position relatively to the principal sheets whereby the two sets of sheets may be coordinated and referred to contemporaneously.

Another object of the invention is to provide a display map moulding strip.

A further object of the invention is to provide a novel suspension clip adapted to be slidably and removably mounted upon my novel moulding strip.

In accordance with the general features of my invention, I provide a substantially continuous wall moulding adapted to be cut to convenient lengths, together with a suspension device or clip of such a construction as to be reciprocal to the construction or form of the moulding so that it may be readily mounted upon the moulding and secured thereon against accidental displacement.

Other objects and advantages of my construction will more fully appear in the following detail description, taken in connection with the accompanying drawing, which illustrates a single embodiment thereof, and in which:

Figure 1 is a fragmentary front elevation of certain suspension elements forming a part of my invention and illustrating it as applied to one of the walls of a room and representing a map suspended therefrom;

Fig. 2 is a fragmentary perspective view of a portion of the moulding strip illustrating the insert therein;

Fig. 3 is a fragmentary sectional view taken on substantially the line 3—3 of Fig. 1;

Fig. 4 is a perspective view of the suspension clip looking at it from the front;

Fig. 5 is a perspective view of the suspension clip looking at it from the rear; and

Fig. 6 is a view similar to Fig. 3 illustrating the suspension clip as supporting a map mounting of the character disclosed in my co-pending application, Serial Number 224,651, filed Oct. 7, 1927.

It is thought that my novel method of conveying information will be readily understood from a detail description of the apparatuses by which it may be practiced.

Referring now to the drawing in detail, in which like characters of reference denote similar parts throughout the several views: Numeral 1 designates generally a channel-shaped moulding strip preferably made of thin metal and comprising a base 2 and a pair of laterally extending sides 3—3. Formed integrally with the outer ends of the sides 3—3 is a pair of flanges 4 and 5 disposed substantially parallel to the base 2. These flanges extend outwardly and laterally from the sides 3—3 and project in opposite directions.

The channel defined by the strip 1 is filled by a stiffening strip or insert 6 which may be of cork, wood or analogous material of proper shape and size to fill the channel of the moulding strip throughout its length. This strip may be secured in place within the channel by means of glue or other cementitious material. The fastening for the insert 6 is further established by the means provided for securing the strip to the relatively stationary support or wall.

It will be noted from Fig. 3 that the outer surface of the core or insert 6 is disposed slightly below the flanges 4 and 5. The insert 6 is provided at intervals with holes 7 which are disposed in alignment with holes 7' in the base 2 of the strip. The holes in the insert 6 are preferably countersunk, as shown in Fig. 3. Positioned in each set of the aligned holes 7 and 7' is a tubular eyelet 8 having outwardly flaring edges 9. It will be noted from Fig. 3 that the edges 9 of the eyelet are disposed flush with the flanges 4 and 5 of the strip. A screw 10 of sufficient length to secure the strip to the relatively stationary support is disposed in each eyelet 8. Each of these screws is provided with

an enlarged head 11 seated in the flared portion of the associated eyelet. These screws not only serve as a means of securing the moulding strip 1 to the support or wall but, as previously pointed out, at the same time tend to air fastening the core insert 6 to the metallic strip 1.

A moulding strip thus formed and mounted is provided with movable suspension devices or clips formed to embrace and having slidable movement on the moulding strip. Each of these clips may be made from a blank of thin metal and comprises a body portion 14 and inwardly turned flanges bent back upon the body portion 14 including a top member 15 turned back and downwardly flanged to ride upon the upwardly turned flange of the moulding strip, and an upwardly turned flange 16 adapted to engage the downwardly turned flange 5 of the moulding strip.

A hook 17 is turned outwardly from the body portion 14 and is disposed at substantially a right angle to the portion 14, as indicated at 18. Attention is directed to the fact that the flange 16 is comparatively shorter in length than the flange 15 for a purpose which will become more apparent hereinafter. Extending from the body portion 15 adjacent the flange 16 is an offset member 20 including a downwardly projecting wall fender 21.

The lower flange 5 of the moulding strip is provided with spaced notches 23, each of which is of such a width as to receive the lower and relatively short flange 16 of the suspension clip. It will thus be evident that when the suspension clip is attached by means of its own downwardly turned flange 15 to the upwardly turned flange 4 of the moulding strip, the flange 16 may enter one of the notches 23 and may be thus readily engaged by lateral movement in either direction with the lower flange 5 of the strip. This arrangement insures against the accidental displacement of the suspension clip relatively to the moulding strip.

After a pair of the suspension clips have been slidably mounted upon the strip 1, they may be spaced a given distance apart so as to accommodate and support a device such as the map 25, shown in Figs. 1 and 3. This map includes eyelet lugs 26 adapted to be hung on the hooks 17 of the suspension clips. It will be noted that the map stick 28 of the map 25 is adapted to abut the fender plate 21 of each of the suspension clips, as shown in Fig. 3. This fender plate 21, due to its offset position relative to the plane of the body portion 14 of the clip, serves to maintain the map away from the wall, thus preventing the map from being soiled by contact therewith. Moreover, should the map be positioned so as to be drawn down over the front of a blackboard, by my spacing it

from the surface of the blackboard, it will follow that any chalk data on the board will not be erased or marred by the rear of the map coming into contact with the board.

In Fig. 6, I have illustrated my novel map supporting structure as supporting a map mounting 30 of the construction disclosed in my co-pending application, Serial Number 224,651, filed Oct. 7, 1927. This mounting as disclosed in my co-pending application comprises a pair of spaced brackets 70 secured to a metallic spacing strip 71. The upper edge of the spacing strip 71 is provided with spaced openings 74 for receiving the hooks 17 of the suspension clips. From the foregoing, it will be readily apparent that not only can my novel suspension clips be utilized to support a map or chart such as the map 25, but they may also be used to support a mounted map unit including a spring shade roller mounting such as indicated at 30, and suspended, as shown in Fig. 6, so that the lower portion of the roller mounting will bear against the fender member 26 and hold the spring roller and the dogs thereof in operative position.

Now it frequently happens in the use of charts and maps that temporary or auxiliary sheets of data are associated with the map so as to aid in the explanation of the same. By providing the moulding strip with insert 6 of cork or other material which will readily receive and firmly hold a thumb tack, these auxiliary sheets of data may be positioned and supported in proximity to the principal sheets or map. In Fig. 1 is illustrated an auxiliary sheet 30^a for additional related matter which is positioned adjacent to the map 25 and secured to the cork 6 of the moulding strip by means of thumb tacks 31. Due to the proximity of the map 25 and the sheet 30, it will be evident that they may be studied and visualized together.

Now I desire it understood that, although I have illustrated and described my invention in detail, the invention is not to be thus limited, but only in so far as defined by the scope and spirit of the appended claims.

I claim:

1. As an article of manufacture, a slidable suspension clip comprising a body portion having inwardly turned flanges adapted to receive and ride upon a supporting member, a hook connected to said body portion adapted to support a map, chart, and the like, and a downwardly extending lateral extension formed integral with said body portion adapted to serve as a fender for maintaining the chart supported by the hook away from the wall.

2. As an article of manufacture, a slidable extension clip comprising a body portion, inwardly turned opposite flanges defining pockets for receiving flanges of the support, said opposite flanges extending toward each other

and one of said flanges being of a smaller length than the other flange, and a hook for supporting a chart formed integral with said body portion and disposed at substantially right angles thereto.

3. As an article of manufacture, a slidable extension clip comprising a body portion, inwardly turned opposite flanges defining pockets for receiving flanges of the support, said opposite flanges extending toward each other and one of said flanges being of a smaller length than the other flange, a hook for supporting a chart formed integral with said body portion and disposed at substantially right angles thereto, and a downwardly projecting extension formed integral with said body portion, said extension being offset relative to the plane of said body portion and serving as a fender for maintaining the chart supported by the hook away from the wall.

4. As an article of manufacture, a slidable extension clip for use in supporting charts, maps, and the like, comprising a main body portion having opposite flanges bent back upon said body portion and co-operating with the body portion to define pockets for receiving the flanges of a supporting member, a hook for supporting a chart, and the like, formed integral with said body portion and extending laterally forward in a direction away from said flanges, and an offset extension connected to said body portion and serving as fender for maintaining the chart supported by the hook away from the wall.

5. In a supporting structure for maps, charts, and the like, a moulding strip comprising a main body portion and laterally extending flanges connected to said body portion, an extension clip for supporting a map, chart, and the like, slidably mounted upon said moulding strip and comprising a body portion and adapted to slidably embrace the flanges on said strip, a hook connected to said body portion for supporting a chart or the like, and a lateral extension connected to said body portion adapted to serve as a fender for maintaining the chart carried by the hook out of engagement with the wall.

6. In a supporting structure for maps, charts, and the like, a moulding strip adapted to be secured to a wall, and a suspension clip slidably mounted upon said strip including means for supporting a chart and the like, and fender means for maintaining the chart supported thereby out of contact with the wall.

7. In a supporting structure for maps, charts, and the like, a moulding strip comprising a channel member having laterally extending flanges, and a suspension clip slidably mounted upon said strip including bent back flanges for embracing the flanges on said strip, one of the flanges on said strip having a slot for receiving a flange of the clip whereby the clip may be mounted upon the mould-

ing strip, and a hook connected to said clip for supporting a chart and the like.

8. In a supporting structure for maps, charts, and the like, a moulding strip including a body portion, and laterally extending flanges, a suspension clip slidably mounted upon said strip comprising a main body portion including inwardly turned opposite flanges shaped to embrace the flanges on said strip, one of said flanges on the clip being smaller than the other flange and being adapted to enter a slot in one of the flanges of the strip whereby the device may be initially mounted on said strip, and a hook formed integral with said body portion of the clip and disposed at right angles to said body portion, said clip being designed to support charts, maps, and the like.

9. In a supporting structure for maps, charts, and the like, a moulding strip comprising a channel member having connected to it laterally extending flanges and an irremovable insert of relatively soft material disposed in said channel throughout its length adapted to have embedded therein pins, thumb tacks, and the like, for securing a chart thereto, a suspension clip slidably mounted upon said strip including flanges for embracing the flanges on the strip, and a supporting arm on said clip for supporting maps, charts, and the like.

10. A sheet suspending means comprising a horizontally elongated track having parallel upper and lower edges, the upper edge of said track being unbroken and the lower edge of said track being provided with a notch, means for securing said track to a support and spacing it horizontally therefrom, a slide having an upper hook freely slidably along the unbroken upper edge of said track, said slide being provided also with a lower hook adapted to pass through said notch of the track when applying or removing the slide, and means carried by said slide for facilitating the attachment of a sheet thereto.

In witness whereof I have hereunto set my hand at Chicago, Illinois, this 28th day of September, 1927.

FRANK H. SWANSON.