March 3, 1931. E. E. SHATTOW 1,794,648

DRAFTING ATTACHMENT

Filed July 21, 1928

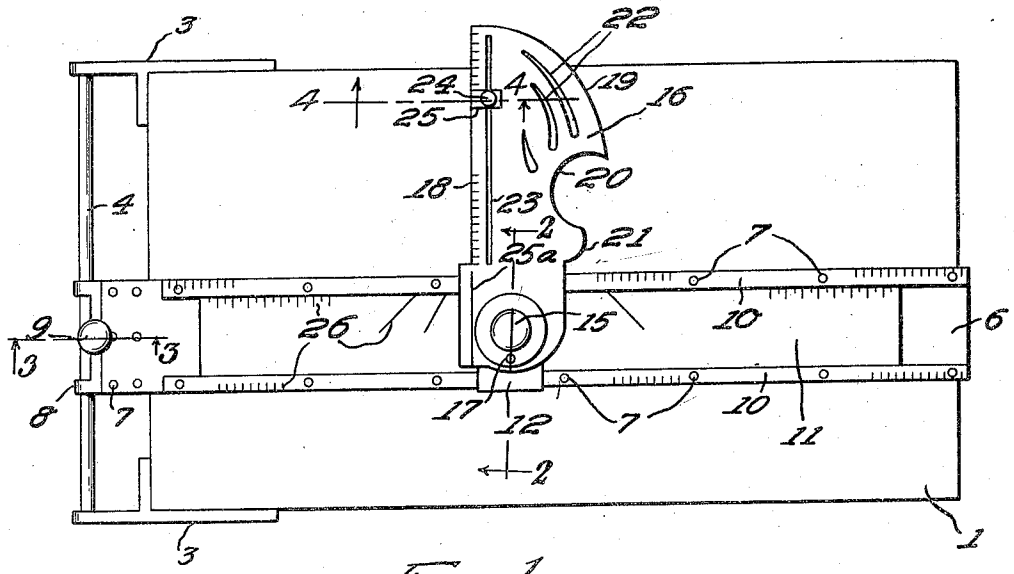


FIG. 1

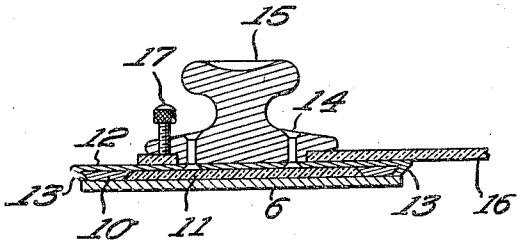


FIG. 2

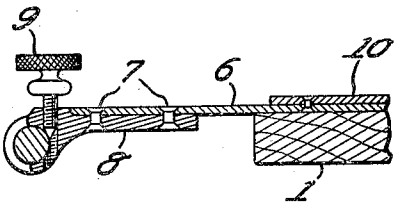


FIG. 3

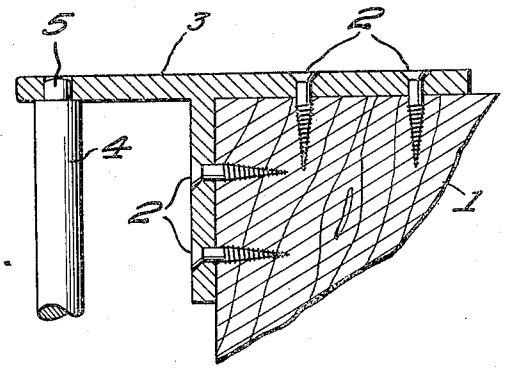


FIG. 5

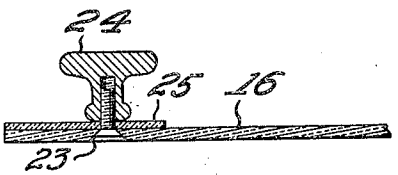


FIG. 4

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UNITED STATES PATENT OFFICE

EMIL E. SHATTOW, OF CHICAGO, ILLINOIS

DRAFTING ATTACHMENT

Application filed July 21, 1928. Serial No. 294,433.

This invention relates to improvements in attachments for T-squares, and particularly to a drafting attachment which comprises a combination scale and a French curve. The principal object of the invention is to provide an attachment of this type adapted to be slidably mounted upon the blade of the T-square and held in any adjusted position thereon, the French curve and scale being mounted upon the sliding blade clamp so as to be rotated to any desired angle.

This invention is intended as an improvement upon my co-pending application, Serial Number 277,254, filed May 12, 1928.

The invention is illustrated in the accompanying drawing, in which—

Fig. 1 is a plan view of a drawing board with the drafting instrument applied thereto.

Fig. 2 is an enlarged fragmentary sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is a view taken on the line 3—3 of Fig. 1.

Fig. 4 is an enlarged fragmentary sectional view taken on the line 4—4 of Fig. 1.

Fig. 5 is an enlarged fragmentary sectional view through the drawing board at one corner thereof showing a portion of the rail held in spaced relation thereto and the removable clamp holding said rail.

Like reference characters denote corresponding parts throughout.

The reference numeral 1 denotes a drawing board. Removably attached to the corners of one end thereof by screws, or other suitable fastening means 2, are the brackets 3 that carry the outwardly spaced rail 4, preferably round in cross section.

The reduced ends 5 of the rail are received in perforations in the brackets and, when the brackets are removed from the board, are readily disengaged therefrom so that rails 4 of different lengths can be releasably carried by the brackets, the length of the rail corresponding to the distance between the brackets which distance depends upon the width of the board 1.

Resting upon the drawing board is the blade 6, like the blade of a T-square, the rail 4 acting as the head of the square, this blade at one end being secured by rivets 7 to the clamp 8 that slidably engages the rail 4, said clamp being provided with the tightening screw 9 whereby it may be held to any adjusted position upon said rail. Extending longitudinally of the blade 6 along its lateral edges and secured thereto by rivets 7 are the parallel spaced metal strips 10, the lateral edges of each strip being bevelled inwardly and downwardly, said strips slidably receiving between their relatively adjacent lateral edges the sliding scale 11, the lateral edges thereof being bevelled downwardly and outwardly to snugly fit in against the bevelled edges of the said strips 10, said scale being introduced between the strips at the ends thereof remote from the clamp 8.

A slide 12 made preferably of thin metal is mounted upon the strips 10, the inwardly bent and downturned ends 13 thereof slidably engaging the outer bevelled lateral edges of the said strips, said slide having secured thereto by rivets 14 the knob 15 that adjustably engages the flat plate 16 formed to provide a scale and French curve, a locking screw 17 being provided to retain said knob 15 and plate 16 in adjusted position when desired. When the screw 17 is loose it is obvious that the plate 16 is rotatably mounted upon the slide 12.

The plate 16 is formed with a straight edge scale 18, with curves 19, 20, 21 formed along its opposite edge as shown, with curved slots 22 and with a longitudinally extending slot 23 parallel to its straight edge, said slot receiving one end of the screw 24 that extends through the sliding dog 25 movable over the straight edge scale 18 for cooperation therewith. A mark or graduation 25*a* upon the plate 16 parallel with the slot 23 is adapted for use in connection with the graduations 26 of the sliding scale 11. No particular scale has been shown upon the sliding plate 11, upon the strips 10, nor upon the plate 16 but it is to be understood that any scales desired may be used.

The French curve and scale is used to draw curves about its periphery and through the slots 22, and straight lines along its straight edge which is graduated. Such straight lines

can be made at predetermined distances apart, these distances being determined by the scale upon the strips 10. The French curve can be used, in connection with the strips, as a protractor.

The mark 25*a* may be used to note distance upon the strip 10 from one end thereof to the said mark and if it is desired to transfer the same to the straight edge of the French curve this may be done by the sliding dog 25, which is for the purpose of indicating a certain scale mark or dimension on 18.

What is claimed is:—

1. A drafting board attachment comprising a straight edge, strips secured to the lateral edges of said straight edge, the edges of said strips being undercut, a sliding scale having its lateral edges beveled for snug sliding engagement between the adjacent edges of said strips, a slide mounted on said strips and having its side edges bent downwardly and inwardly for sliding engagement with the outer beveled edges of said strips and a rotary flat plate mounted on said slide, said flat plate, strips and sliding scale having marginal graduations.

2. A drafting board attachment comprising a straight edge, strips secured to the lateral edges of said straight edge, a sliding scale removably received between said strips and frictionally engaging the same, a slide mounted on said strips, a flat plate pivotally mounted on said slide and formed with a longitudinally extending slot parallel to one of its edges, and a dog movable over the slotted portion of said flat plate, said flat plate, sliding scale and strips being provided with marginal graduations.

In testimony that I claim the foregoing as my own I have hereto affixed my signature.

EMIL E. SHATTOW.