April 21, 1959 F. M. YOUNG 2,882,641

ADJUSTABLE OVERSIZE BLUEPRINT SUPPORT

Filed Sept. 29, 1958

Fig. 1

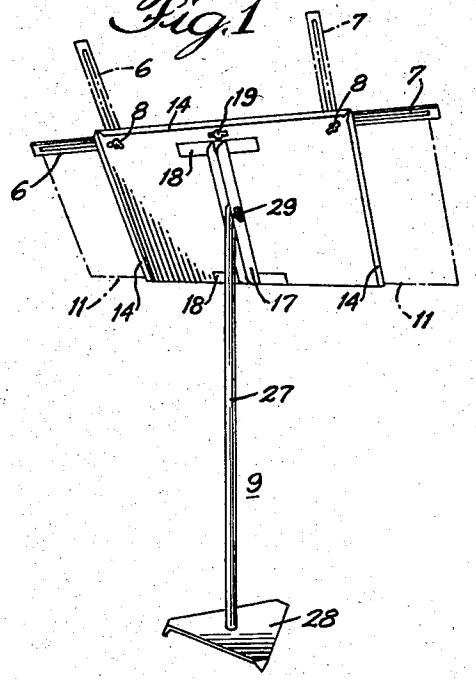


Fig. 2

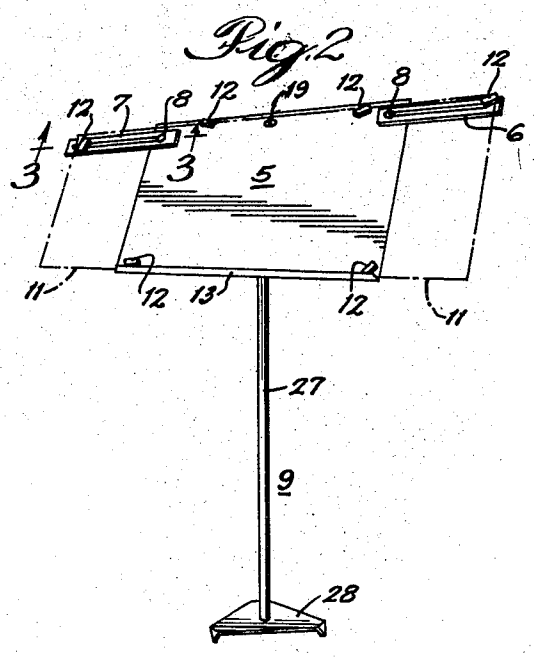


Fig. 3

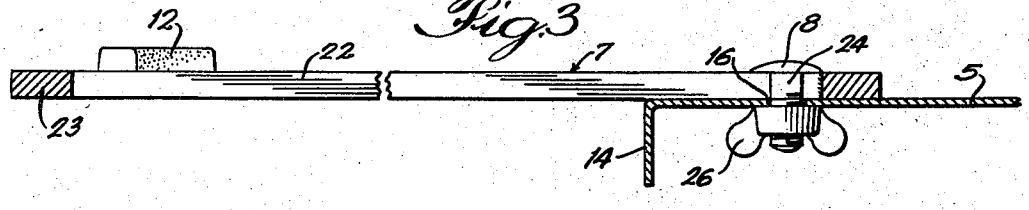
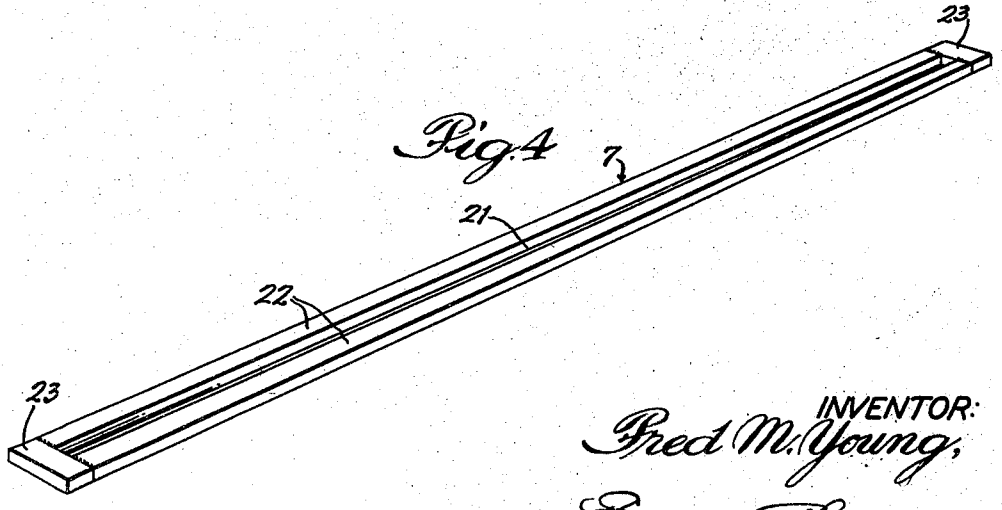


Fig. 4



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ADJUSTABLE OVERSIZE BLUEPRINT SUPPORT

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1 Claim. (Cl. 45—60)

This invention relates to supports for positioning blueprints of shop drawings at eyelevel examination for shop workmen.

One of the main problems in modern mass-production, where workmen are required to form products in precise conformity with blueprint specifications, is the convenient and facile mounting of the oversize blueprints in position to be easily readable and require no handling during the work-forming operations.

The main objects of this invention are to provide an improved form of support for the facile positioning of blueprints of shop-drawings for easy reading and little or no handling by the workman required to form products in strict conformance with the drawing specifications; to provide an improved blueprint support of this kind with adjustable elements which render the support capable of releasably mounting blueprints of oversize dimensions in flat position with little or no necessity of handling during the work-forming operations; to provide an improved form of adjustable blueprint support of this kind which may be arranged on a movable standard or on fixed post or wall adjacent the machine whereon the work is being formed; and to provide an improved adjustable blueprint support of this kind which is of simple metal construction, economical to manufacture and highly convenient to use with almost any size blueprint retainable in position by the conventional magnetic blocks.

In the adaptation shown in the accompanying drawings:

Fig. 1 is a rear view of a preferred form of adjustable blueprint support constructed in accordance with this invention, and showing in full and dotted outlines two different positions of the adjustable elements and also in dotted outline an oversized blueprint positioned on the support;

Fig. 2 is a front view of the same;

Fig. 3 is an enlarged, fragmentary sectional detail taken on the plane of the line 3—3 of Fig. 2; and

Fig. 4 is an enlarged, perspective view of one of the adjustable elements.

The essential concept of this invention involves one or more pair of metal extension arms each pivoted adjacent a corner of a flat metal base plate, the arms being shiftable to varying angular and extensioned relationship outwardly of the right-angle perimeters of the base plate so as to permit blueprints of varying oversize dimensions to be releasably retained in place by the conventional magnetic blocks.

A blueprint support embodying the foregoing concept comprises a base plate 5, a pair of extension arms 6 and 7, secured to the base plate 5 by wing-nut bolts 8, which base plate 5 here is shown mounted on a standard 9 and

upon which base plate 5 and the arms 6 and 7 variously-dimensioned blueprints 11 are adapted to be releasably retained by magnetic blocks 12.

The base plate 5 may be formed of any suitable sheet metal preferably with a forwardly-extending flange 13 along the lower longitudinal edge and rearwardly-extending flanges 14 along the other three edges. Such flanges give rigidity to the base plate 5 and the former serves as a ledge whereon to rest a blueprint 11.

Adjacent its two upper corners, the base plate 5 has apertures 16 (Fig. 3) for the reception of the wing-nut bolts 8 to position the arms 6 and 7 in variously shifted angular and extended positions with respect to the base plate 5.

The base plate 5 may be arranged for mounting on a standard 9 or hanging from a post or wall adjacent the machine where the blueprint 11 is to direct the workman's operation. If the base plate 5 is to be mounted on a standard 9, a suitable form of bracket 17 would be secured to the back of the plate 5 (see Fig. 1). Here, the bracket 17 is shown of channel form bonded to transverse reinforcing strips 18 secured in spaced relationship inwardly from the opposite longitudinal edges of the base plate 5. To permit mounting of the base plate 5 from a post or wall adjacent the machine, a hole 19 is formed near the upper edge of the plate 5 medially of the transverse parallel edges.

The arms 6 and 7, as here shown, are of elongated rectangular shape with a slot 21 extending nearly the entire length thereof. Just how these arms are formed is not important. Here the arms are shown formed of a pair of rectangular bars secured in spaced parallel relationship by bonded end blocks 23.

The wing-nut bolts 8 are conventional items comprising a rounded flat-headed bolt 24 and a winged nut 26. (Fig. 3.) The bolt 24 extending through the slots 21 in the bars 6 and 7 with the wing nuts 26 set to permit positioning the arms 6 and 7 in variously adjusted angular and extended relationships to the right-angle edges of the base plate 5 contiguous to the bolt-receiving apertures 16. Such variously-fixed positioning of the arms 6 and 7 provides extensions for the support of blueprints 11 longer than the width of the base plate 5 (as shown in Figs. 1 and 2) or wider than the height of the base plate 5.

A standard 9, for mounting the base plate 5, here is shown as comprising a post 27 secured to a triangular floor base 28. The upper end of the post 27 is apertured and seated within the channel-shaped bracket 17 for attachment by a wing-nut bolt 29. Such an attachment permits angulating the base plate 5 to the vertical to insure the blueprint 11 laying flat on the base plate 5 in a most acceptable position for easy reading by the workman who has to form products in accordance with the blueprint specifications.

The blocks 12 are magnetized pieces of metal such as are conventionally used for releasably securing papers on bulletin boards without mutilation as too often occurs when thumb tacks or clamps are used for this purpose.

From the foregoing description and the illustration in the drawings, the manner of use of this improved adjustable blueprint mounting is believed to be so apparent as to require no further explanation.

Variations and modifications in the details of structure and arrangement of the parts may be resorted to within the spirit and coverage of the appended claim.

I claim:

An adjustable blueprint support comprising a flat base plate dimensioned to support in flat position shop blueprints of standard size, wing-nut bolts extending through plate apertures adjacent the opposite upper corners thereof, and an elongated longitudinally-slotted arm secured to the base plate by each of the wing-nut bolts extending through the respective arm slots whereby the arms are independently shiftable and releasably fixable in various angular and extended relationships outwardly of the contigous right-angle perimeters of the base plate to support blueprints of larger than standard sizes.

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