May 8, 1928. 1,668,970

J. W. McADAM

COPYHOLDER

Original Filed Feb. 9. 1924

Fig. 1.

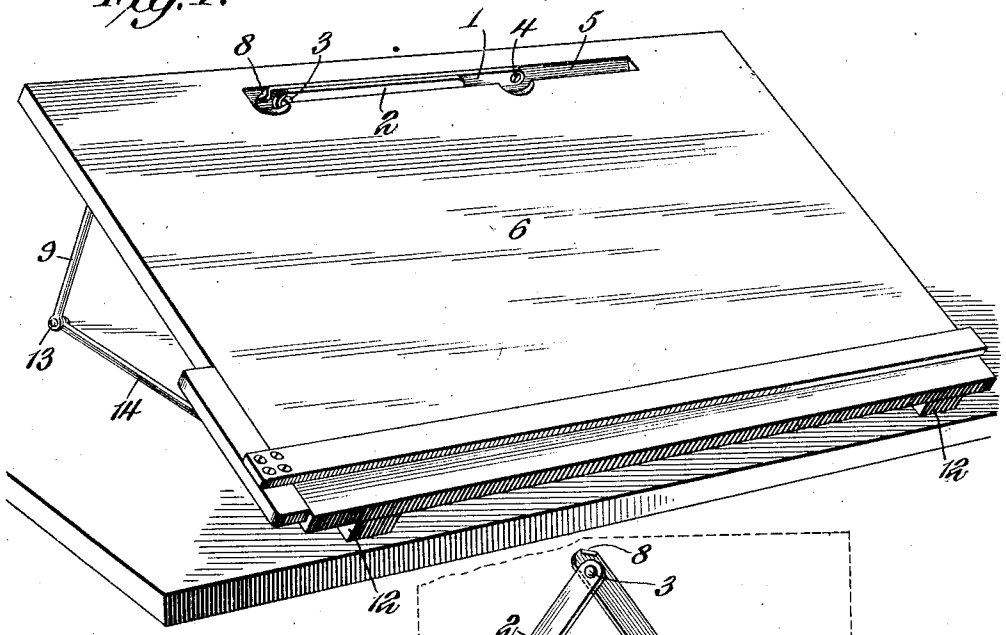


Fig. 2.

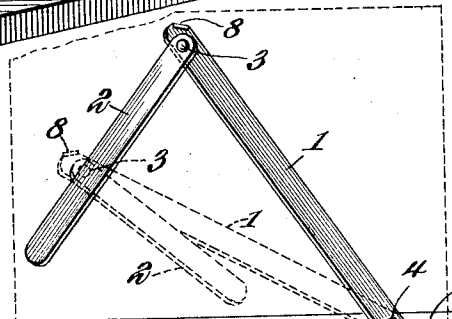




Fig. 3.

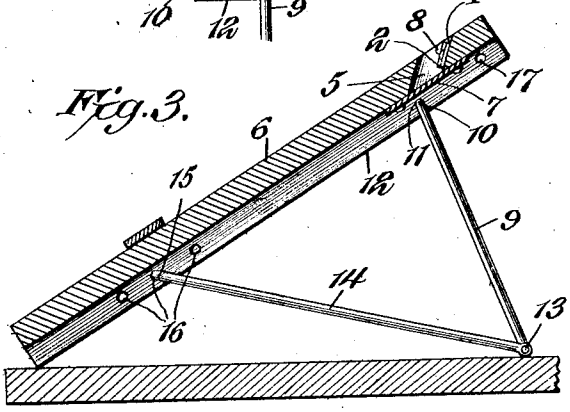
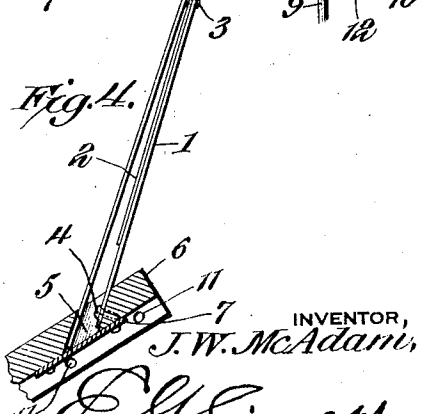


Fig. 4.



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UNITED STATES PATENT OFFICE.

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COPYHOLDER.

Original application filed February 9, 1924, Serial No. 691,754. Divided and this application filed February 28, 1925. Serial No. 12,291.

This invention relates to copy holders, and especially to that class of holders which are used in connection with drawing boards, and the present application is a divisional application of that filed by me on February 9, 1924, Serial Number 691,754, for a drawing board.

The object is to provide means which may be easily incorporated in the structure of a drawing board for the purpose of holding drawings, prints, photographs, sketches or other data or copy in an upright position at the top of the drawing board, so as to be readily observed by the draftsman.

Another object is to locate and mount such means so that the same will not interfere with the locating and fastening of the drawing paper or linen, nor with the full use of the T-square or angles or other instruments, the copy holder being capable of being folded down out of sight and beneath the level of the board when not in use, and also to be easily and quickly raised and arranged in proper position for supporting the copy when desired.

A full and complete understanding of the invention may be obtained from a consideration of the following detailed description taken in connection with the accompanying drawing forming a part of this specification; it being understood that while the drawing shows a practical form of the invention, the latter is not to be confined to strict conformity with the showing thereof, but may be changed or modified, so long as such changes or modifications mark no material departure from the salient features of the invention, as specifically pointed out in the appended claims.

In the drawing, in which similar reference characters designate corresponding parts throughout the several figures:

Figure 1 is a perspective view of a drawing board having the improved copy holder applied thereto.

Figure 2 is a longitudinal section through the drawing board and showing the copy holder in raised or active position.

Figure 3 is a section taken at right angles to Figure 2, and showing the board supported in an inclined position, with the improved copy holder folded into inactive position.

Figure 4 is a detail section, similar to Figure 3, of the upper portion of the board with the copy holder extended and supporting the copy.

In preparing drawings, it is necessary to refer more or less to drawings, prints, photographs, sketches or other data or copy, either to read from the same or to take measurements therefrom, and the draftsman is often obliged to devise ways and means for supporting such data in a more or less upright position to be seen at a glance, and thus save time and labor. The present invention is designed to supply this necessity by constructing a device forming a part of the board so as to be always at hand, and by a simple movement to be made ready to support such data whether on large or small sheets or pages, and to hold the same in proper position for the draftsman, whether the board is supported at an angle to the table or desk or lying flat upon the latter.

The device consists in a foldable structure comprising a relatively long arm 1 and a shorter arm 2, each formed of suitable stiff, metallic strips and pivoted together, as at 3, at their overlapping ends, the other end of the long arm 1 being pivoted upon a screw 4 entering the rear inclined wall of a longitudinally disposed slot 5 cut through the board 6 near the top edge thereof and extending throughout the major portion of its length.

By forming the slot 5 at an angle to the surface of the board, as clearly shown in Figure 3 of the drawing, it will be seen that when the arms 1 and 2 are raised, as shown in Figures 2 and 4, the same serve to form an inclined support for any copy that may be resting against the same, and it will be further seen that when the arms are folded down into the slot, they are entirely out of the way of the drawing paper, or the movements of the T-square, if it is desired to use a sheet of such large size.

The slot is closed at the bottom thereof by a suitable metal plate 7 suitably secured to the underside of the board and extending throughout the length of the slot, and the latter may be used to support mounted prints or photographs, etc., without the aid of the foldable arms if so desired.

The free, swinging end of the long arm 1, where extending beyond the pivot 3, is provided with a finger hold 8 which serves as a means to easily lift the arms from the slot, and then by bending at the joint, to set the angular structure at the desired height.

In Figures 1 and 3 of the drawing there is shown a means for supporting the drawing board 6 at an inclination, said means consisting of rear legs 9 formed of stiff wire, and having their upper ends turned outwardly to form trunnions 10 mounted in apertures 11 in the end cleats 12 of the board 6 adjacent to the rear or upper ends of said cleats. The lower ends of the legs 9 are pivotally connected as at 13 to forwardly-extending arms 14, the front ends of which are turned outwardly to form trunnions 15 and adapted to enter one of a series of holes 16 in the cleats, thus preventing the legs from collapsing and serving to maintain the board at different angles of inclination by engaging the front ends of the arms in different holes 16. When it is desired to lay the board flat upon a table or desk, or when transporting the same, the arms may be folded and held flat against the underside of the board by disengaging the trunnions 15, and inserting the same in terminal holes 17 formed in the cleats. Since, however, this structure forms no part of the present invention, no claim is made herein to the same and it is not deemed necessary to further illustrate or describe the same.

From the foregoing it will be seen that a simple means has been provided which may be easily incorporated in drawing boards for supporting copy, that the same does not interfere with the use of the board, being foldable out of the way and quickly brought into operative position.

What is claimed is:

1. An attachment for drawing boards provided with a longitudinal slot adjacent to its upper edge, said slot having an angular relation to the surface of the board, a thin, flat metallic arm pivoted at one end within and adjacent to one end of the slot, said arm having two sections pivotally connected together, and adapted, when opened, to be angularly related to form an inclined rest for copy, and to be folded into parallel relation and to be depressed into the slot when not in use.

2. The combination with a drawing board provided with a longitudinal groove near its upper, longitudinal edge, the walls of said groove being formed at an angle to the surface of the board, of a foldable arm terminally pivoted in the groove, said pivot being adapted to frictionally hold the arm at any point of turning thereon, said arm having a frictionally-held, pivoted extension at the free end thereof and adapted to be folded back alongside thereof when the arm is swung down into the groove.

3. A copy holder for drawing boards having a longitudinally-disposed groove extending through the same near the top longitudinal edge thereof, a plate secured to the underside of the board to form a bottom therefor, an elongated metal arm pivoted at one end within the groove, an extension arm terminally pivoted to the free end of the first arm and adapted to be folded back alongside of the same and be housed in the groove, both pivots frictionally holding the arms in either opened or closed positions, said first arm having a finger-hold to withdraw same from the groove.

4. A drawing board having near its upper longitudinal edge, a longitudinal groove closed at its bottom, the opposite walls of said groove being at an acute angle to the top surface of the board, an arm comprising two sections hinged together and adapted to be folded into said groove, one end of one of the arms being pivoted to one wall of the groove and adapted to maintain the partially folded arm in upstanding position to support copy.

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

JOSIAH WILSON McADAM.