Nov. 12, 1929. E. MORATZ 1,735,292

DRAWING BOARD

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Fig. 2.

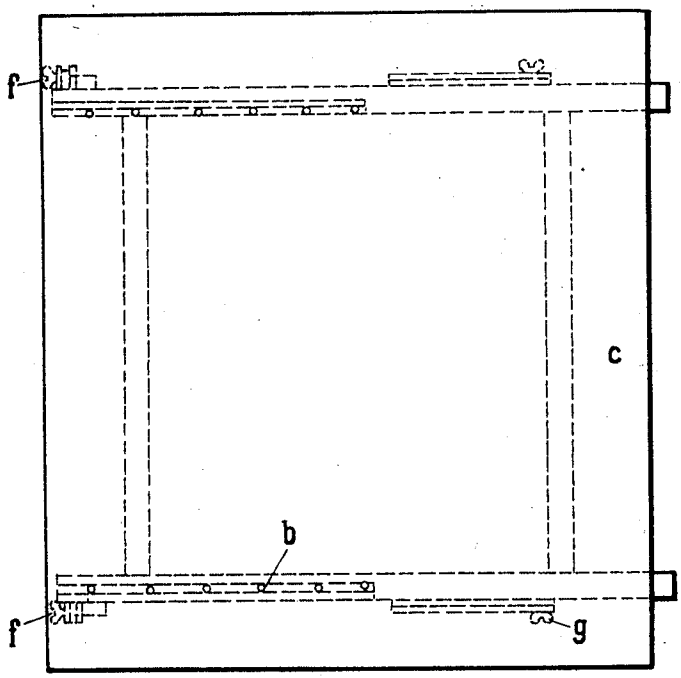


Fig. 1.

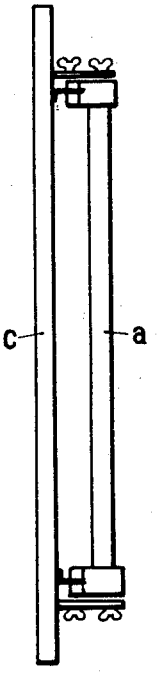


Fig. 3.

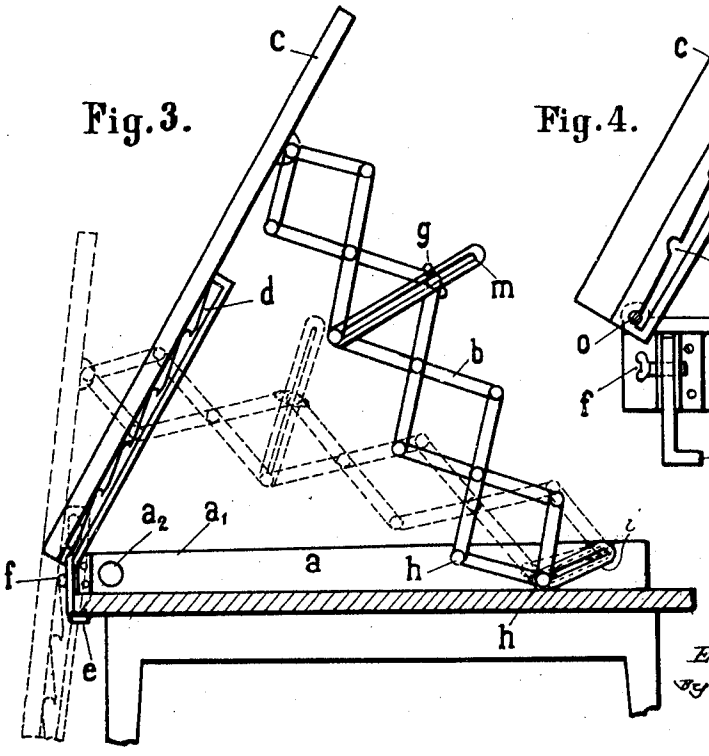
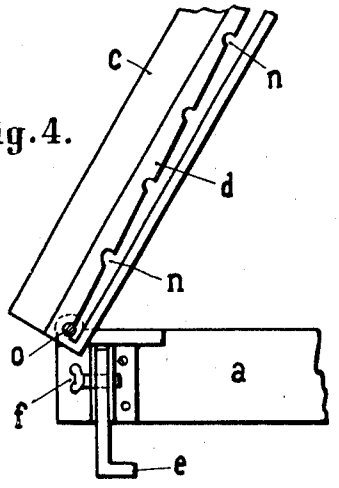


Fig. 4.



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DRAWING BOARD

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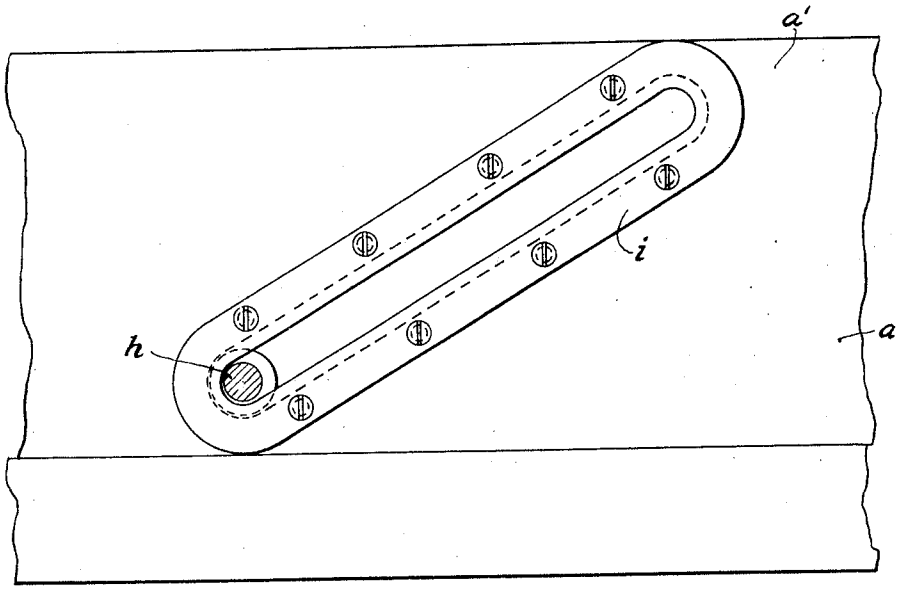


Fig. 5

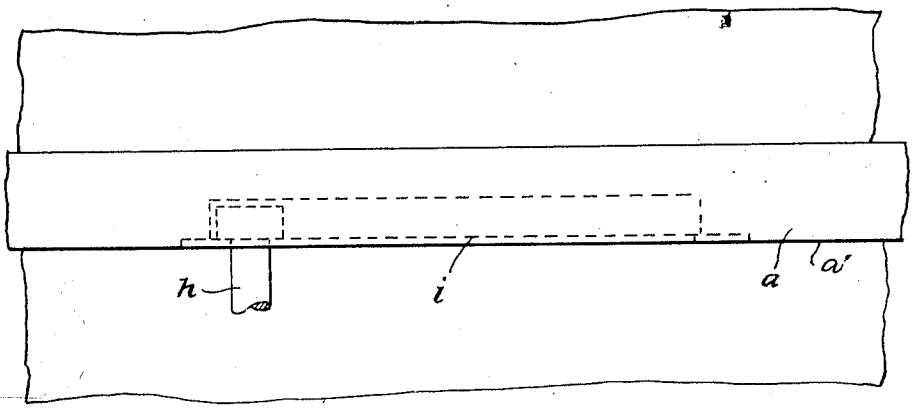


Fig. 6

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UNITED STATES PATENT OFFICE

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DRAWING BOARD

Application filed March 9, 1925, Serial No. 14,260, and in Germany March 10, 1924.

This invention has reference to drawing boards for draftmen's use and for similar purposes, and it is particularly intended to devise means of both changing the inclination of the board and its height above the table or support when in an erected position.

In accordance with my invention the adjustment of the inclination of the drawing board is effected by means of, for instance, two lazy-tongs secured to the table or support and to the board itself, while the adjustment of the height is performed by the engagement of studs or the like provided on the front or upper side of the support with sockets or recesses or hooks disposed on bars upon the lower side or upon the edges of the drawing board. By this adjustment of the inclination as well as of the height of the board it becomes possible to so alter the relative position of the board with regard to the support and to the draftsman that it may be manipulated and employed in accordance with the convenience and stature of the draftsman both in the standing up as well as in the seated position of the draftsman. The use of the lazy tongs facilitates the adjusting procedure, and permits of an adjustment in any desired position, and without the necessity of a merely stepwise adjustment in the inclined position, as has been the case in the previous art.

The device will be more fully described with reference to the accompanying drawing showing by the way of exemplification an embodiment of the principles of this invention, Figure 1 being a side view of the adjustable drawing board in the collapsed position ready for transportation; Figure 2 shows the adjustable drawing board in top view seen from above upon the drawing plate; Figure 3 is a side view of the drawing board in the operative position, as secured to a table; the dotted lines representing the drawing board at different inclination and with its operative height above the table reduced; Figure 4 is an illustration of the supporting member provided at the front edge of the board carrier on an enlarged scale and in side view. Fig. 5 is an elevation of portion of the table showing the guide for the adjustable support; Fig. 6 is a top view of the guide shown in Fig. 5.

The adjustable drawing board comprises the base or support a, the two lazy-tongs b and the drawing plate proper c. The lazy-tongs are linked at one end to the support a and at the other end to the drawing plate c; the connection with the support a is effected by a stud or the like h displaceable in a guide i which is secured to the support a. The lazy-tongs b are retained and locked in the particular adjusted position and operative length by means of wing-nuts g, guided in longitudinal slots of a bar m. This bar m is linked to one of the pivots of the lazy-tongs, while the winged nut g is screw-threadedly mounted upon the opposite pivot of the lazy tongs. This latter pivoted stud is adapted to pass through the slot of the bar m.

The support or carrier a comprises the side rails a_1, and the connecting rails a_2. The guide i, above referred to, is secured to the side rails a_1. Upon the support a two hooks e are adjustably mounted serving for the clamping and retaining of the support or carrier a on a table or the like. Adjacent the two side edges of the drawing plate c the hook-bars or socket-bars d are secured in the sockets or recesses n of which the bolts o which are to be rigidly secured to the support a may be inserted. This arrangement serves for the change of operative height of the board above the table.

The manipulation of the drawing board according to the invention is effected substantially as follows:—The drawing board is placed upon a table, a bank, a side board or the like, and is securely clamped in position by means of the adjustable hooks e and by loosening and then tightening the screws f. Then the winged nut g on the lazy-tongs is released and the drawing plate c is swung on the pivot o into the desired position. After this position has been arrived at the winged nut g is again tightened, whereupon the drawing board is ready for operation. When it is desired to lower the drawing board with relation to the table the bolt o is withdrawn from its socket, the

drawing plate *c* is lowered as indicated in the dotted-line position, and the bolt *o* is then again introduced into the sockets of the rail *d*.

In order to prevent striking of the lowest links *k* of the lazy-tongs against the support in the lower positions the pivotal stud *h* which is linked to the rails a_1 is raised in its slotted guide *i*, or it is caused to become displaced in this guide *i* upon the lowering of the drawing plate.

The invention has been shown and illustrated in its broad aspects only, and it should be understood that it is susceptible of alterations and changes to suit the convenience of the user and varying conditions of application, and without deviating from the spirit of the invention, as defined in the claims hereunto annexed.

I claim:—

1. In a drawing table, in combination, a drawing board, a support for said drawing board, a guide on said support, means for maintaining said drawing board in an inclined position, said means comprising lazy-tongs secured at one end to said board and pivotally secured in said guide at the other end, and means to adjustably and detachably and pivotally connect said drawing board to said support at any one of a plurality of positions on the drawing board.

2. In a drawing table, in combination, a drawing board, a support for said drawing board, a plate provided with a plurality of notches secured to said board, means on said support for engaging any one of said notches, a guide on said support, lazy-tongs secured at one end to said board and pivotally secured in said guide at the other end, and means for locking said lazy-tongs in any one of a plurality of extended positions.

In testimony whereof I affix my signature.

ERNST MORATZ.