(No Model.)

H. HOWSON.

DRAWING BOARD.

No. 340,914. Patented Apr. 27, 1886.

FIG. 1.

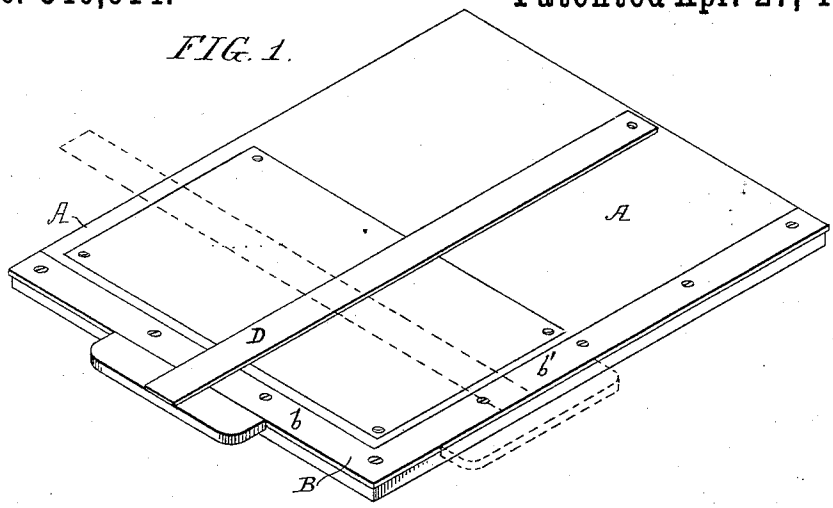


FIG. 2.

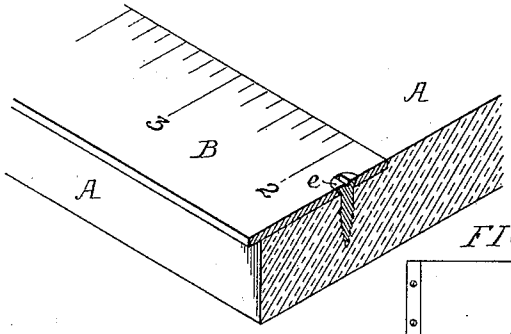


FIG. 3.

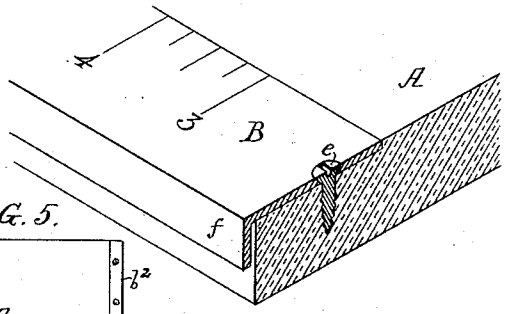


FIG. 5.

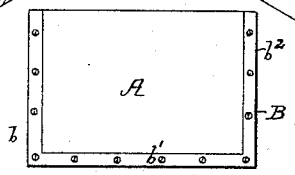
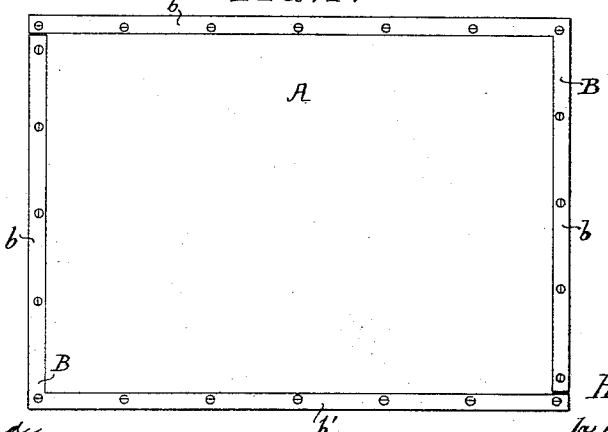


FIG. 4.



Witnesses:
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UNITED STATES PATENT OFFICE.

HENRY HOWSON, OF PHILADELPHIA, PENNSYLVANIA.

DRAWING-BOARD.

SPECIFICATION forming part of Letters Patent No. 340,914, dated April 27, 1886.

Application filed October 14, 1885. Serial No. 179,888. (No model.)

To all whom it may concern:

Be it known that I, HENRY HOWSON, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Drawing-Boards, of which the following is a specification.

My invention has for its object the maintenance of the edges on which the head of the T-square bears, perfectly true, and at right angles to each other at all times.

In the accompanying drawings, Figure 1 is a perspective view of a drawing-board with my improvement; Fig. 2, a sectional perspective view of a portion of the board on a larger scale, and Figs. 3, 4 and 5 views illustrating different ways of carrying out the invention.

A is the board, which need not be provided with the usual tongued and grooved pieces at the ends or on its under side, as in my improved drawing-board absolute truth of the edges of the board itself is not essential.

I form a recess in the upper side of the board along two of its edges, and insert in this recess a right-angled metal strip, B, which is secured to the board by screws *e*, or in any other suitable manner. The edges of this strip preferably project slightly beyond the edges of the board A, in order that any distortion of the board caused by warping will not affect the edge against which the head of the T-square D bears.

In mechanical drawing the left-hand edge *b* of the board is mostly used, and short vertical lines are drawn by the use of an angle-strip the base of which bears upon the upper edge of the T-square; but when long vertical lines are to be made, the T-square is adjusted so that its head bears against the edge *b'*, as shown by dotted lines in Fig. 1.

In boards as at present made much care and skill are necessary in making the board, in order that the edges *b b'* shall be perfectly true or at right angles to each other, and the maintenance of the edges in this condition demands constant attention; but with my improvement a common board can be used, for, as the strip B is composed of one piece of metal (preferably steel) and is made properly true in the first place, it will retain its truth irrespective of the warping of the board. I prefer to graduate the inner edges of the strip B, as this is considerable of an aid to the draftsman.

In Fig. 3 I have shown the strip B as provided with an edge flange, *f*, so as to form a more extended bearing for the head of the T-square.

The board may, if desired, be provided with two right-angled strips of metal, as shown in Fig. 4, so as to present a metallic edge all around.

In Fig. 5 I have shown the strip B extending along the three edges *b b' b²* of the board; but I prefer the use of the single right-angled strip shown in Fig. 1.

I claim as my invention—

1. The combination, with a drawing-board, of a right-angled metallic strip permanently attached to the upper surface of said board, substantially flush with the same, extending along two or more of its edges and forming the bearing for a T-square head, all substantially as specified.

2. The combination, with a drawing-board, of a right-angled metallic strip permanently attached to the upper surface of said board, presenting a face substantially flush with the same and projecting beyond the edges of the board, forming the bearing for a T-square head, all substantially as set forth.

3. The combination, with a drawing-board, of a right-angled metallic strip permanently attached to the upper surface of said board, presenting a face substantially flush with the same, and having a downwardly-projecting flange, to form a more extended bearing for the head of the T-square, all substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HENRY HOWSON.

Witnesses:

WILLIAM F. DAVIS,

HARRY SMITH.