

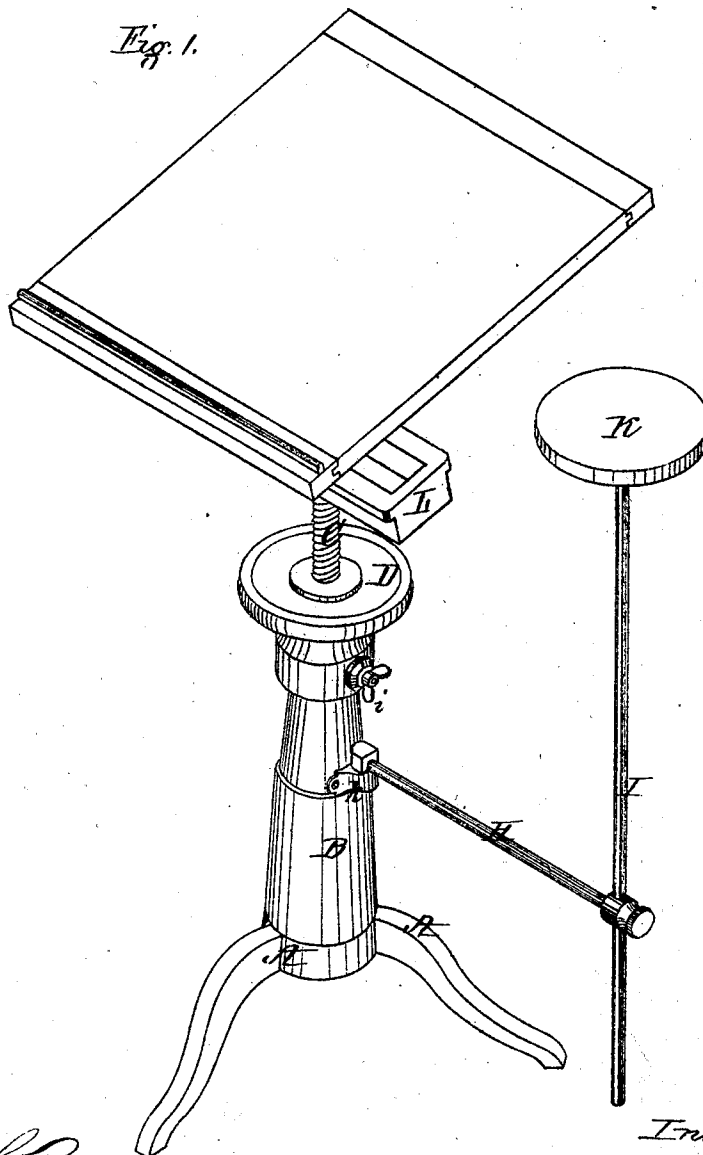
JOSEPH L. ROSS & FREDERIC C. HANSON.

Improvement in Drawing Tables.

No. 122,134.

Patented Dec. 26, 1871.

Fig. 1.



Witnesses,
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W. J. Cambridge

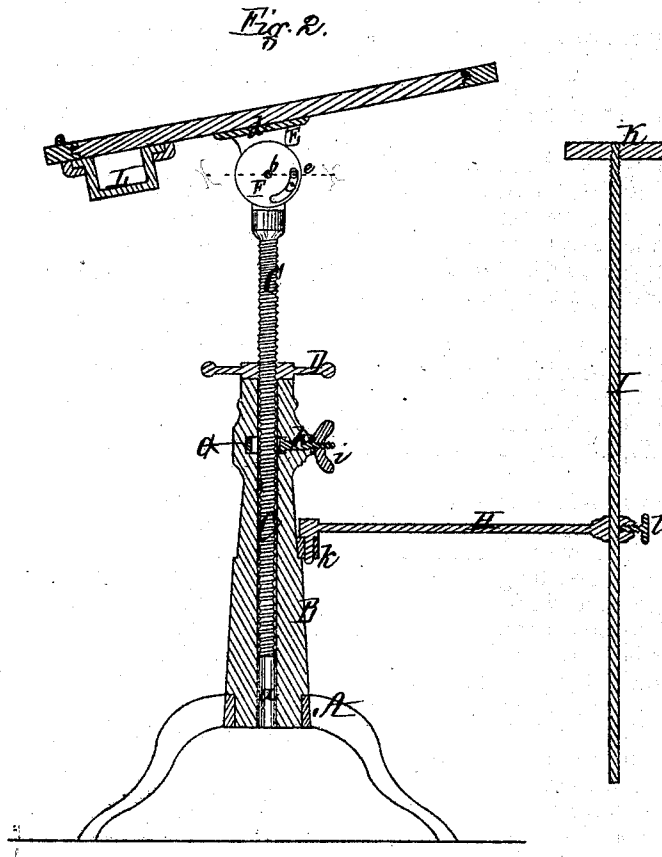
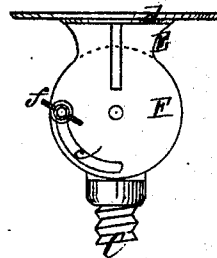
Inventors,
Joseph L. Ross
Fredrick C. Hanson

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*Fig. 3.**Fig. 4.*

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UNITED STATES PATENT OFFICE.

JOSEPH L. ROSS, OF BOSTON, AND FREDERICK C. HANSON, OF CHARLESTOWN,
MASSACHUSETTS.

IMPROVEMENT IN DRAWING-TABLES.

Specification forming part of Letters Patent No. 122,134, dated December 26, 1871.

To all whom it may concern:

Be it known that we, JOSEPH L. ROSS, of Boston, in the county of Suffolk and State of Massachusetts, and FREDERICK C. HANSON, of Charlestown, in the county of Middlesex and State aforesaid, have invented certain Improvements in Drawing-Boards for Architects, Engineers, Schools, &c.; and we hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 is a perspective view of a drawing-board constructed in accordance with our invention. Fig. 2 is a vertical section through the center of the same. Fig. 3 is a transverse section on the line *x x* of Fig. 2; Fig. 4, detail to be referred to.

Our invention consists in a drawing-board provided with a screw-shaft, which is revolved by operating a screw wheel, in order to raise or lower the board to any required height. And our invention also consists in a stand or holder for supporting the object to be drawn, or for holding a light, the stand or holder, when adjusted to any required height, being clamped securely in place. Our invention also consists in securing to the under side of the drawing-board a plate, which is clamped to a plate secured to the top of the screw-shaft; one of the plates being provided with a slot, and the other with a screw-pin, which enters the slot to admit of a screw-nut being used to tighten the plates together, thus producing sufficient friction to keep the board at any desired inclination.

To enable others skilled in the art to understand and use our invention, we will proceed to describe the manner in which we have carried it out.

In the said drawing, A is the tripod, from which rises the vertical standard B, longitudinally through the center of which is formed a circular hole, *a*, for the reception of a vertical screw-shaft, C, which moves loosely therein, first passing through a screw-wheel, D, resting on the top of the standard. Secured to or forming a part of the top of the screw-shaft is a circular plate, E, secured to the board, and to which is pivoted at *b* another plate, F, a portion of which is of similar form thereto, having near its periphery a slot, *c*, the sides of which are parallel to each other, and concentric with the periphery. The upper portion of the plate E terminates in a circular plate, *d*, the plane of whose surface is

at right angles to that of the lower portion of the plate F. *e* is a screw-pin, fastened to and passing through the plate E near its periphery; this pin projects into and through the slot *d*, and receives a screw-nut, *f*, Fig. 4, which, when tightened down on the plate F, clamps it firmly against the plate E, and keeps the board at any inclination to which it may have been adjusted. G is a collar set into the standard for the screw-shaft to pass through, the diameter of the interior of the collar being slightly larger than that of the shaft. Formed in one and the same piece with the collar is a screw-pin, *h*, which projects outside the standard and receives a screw-nut, *i*, which is clamped against the side of the standard so as to bring the opposite interior surface of the collar tightly against the screw-shaft, thus keeping it from descending and holding the board up to the desired height. Secured to the outside of the standard at any convenient point is a projecting piece which forms a bearing, *k*, for the inner bent end of a horizontal rod or bar, H, the outer end of which is provided with a hole for the reception of a long vertical rod, I, to the upper end of which is secured the stand or holder K for the object or light. *l* is a screw, the point or end of which may be turned against the rod I so as to, clamp it and keep the stand supported at any desired height.

From the foregoing it will be seen that the board may be held steadily in a horizontal position, or inclined to any desired angle, while, by revolving the screw-shaft the height of the board may be varied, and the work brought into the most convenient position for the draughtsman, the object being swung around to be constantly before him. L is a sliding-drawer, for holding the artist's instruments and materials.

What we claim as our invention, and desire to secure by Letters Patent, as an improvement in drawing-boards, is—

1. The adjustable holder K, in combination with a drawing-board, substantially as and for the purpose described.

2. The plate E attached to the top of the shaft C, in combination with the slotted plate F and screw-clamp *e f*, operating substantially in the manner and for the purpose set forth.

Witness our hands this 1st day of September, A. D. 1870.

JOSEPH L. ROSS.
FREDERICK C. HANSON.

Witnesses:

P. E. TESCHEMACHER,
W. J. CAMBRIDGE.

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