

C. ZWEIFEL & E. STEVENS.

Improvement in Apparatus for Tracing Drawings, &c.

No. 125,372.

Patented April 2, 1872.

Fig 1

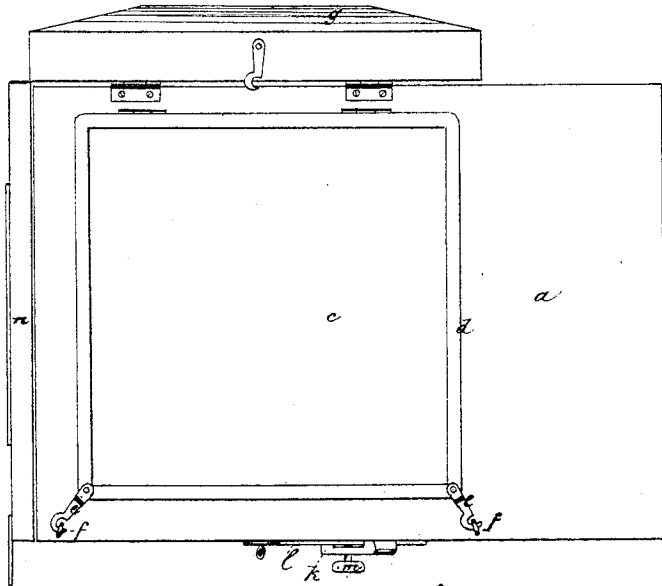
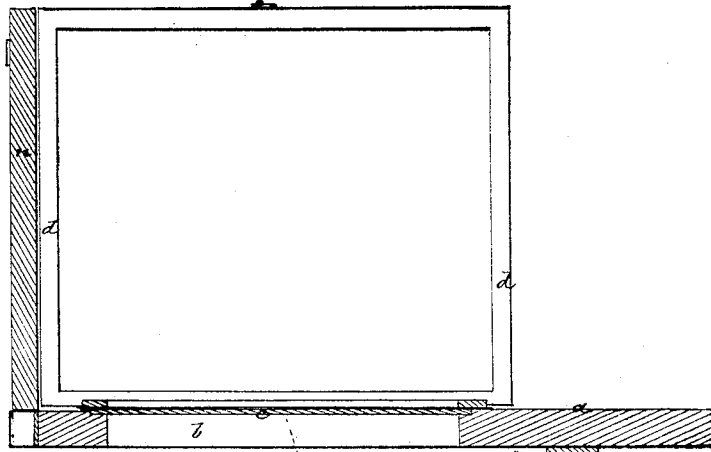


Fig 2



Witnesses:

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UNITED STATES PATENT OFFICE.

CASPER ZWEIFEL AND EDWARD STEVENS, OF POMEROY, OHIO.

IMPROVEMENT IN APPARATUS FOR TRACING DRAWINGS, &c.

Specification forming part of Letters Patent No. 125,372, dated April 2, 1872.

To all whom it may concern:

Be it known that we, CASPER ZWEIFEL and EDWARD STEVENS, of Pomeroy, in the county of Meigs and State of Ohio, have invented a new and Improved Apparatus for Tracing Drawings, Pictures, &c.; and we do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a top view, and Fig. 2 is a sectional elevation.

Our invention relates to an improvement in tracing-boxes, provided with reflecting and transparent plates; and the feature of novelty consists in the arrangement of a frame for holding or clamping the pattern, as hereinafter described.

Referring to the drawing, *a* is a board with a hole, *b*, of any desired shape and size cut through it. A glass plate, *c*, is let into the surface of the board over the hole *b*, on which plate is laid the picture. A frame, *d*, is hinged to the board at one side of the plate *c*, and is provided with hooks *e* to enter eyes *f* in the board, and thus fasten the frame down upon

the picture and tracing-muslin. A cover, *g*, is hinged to one side of the board *a* for the purpose of protecting the glass plate when not in use. A mirror, *i*, is placed in a frame, *j*, which latter is hinged to the bottom of the board *a* crosswise of the same. A socket, *k*, is secured to one side of the frame *j*, through which a brace, *l*, pivoted at its upper end to the adjacent side of the board *a*, is passed. A set-screw, *m*, entering the socket, serves to fasten it to the brace *l* at any desired point. By this means the angle between the glass plate and the mirror may be varied at pleasure. A shield, *n*, is set in a socket at the end of the board *a* for the purpose of keeping the rays of light off from the muslin.

What we claim is—

The hinged clamping-frame *d*, in combination with the transparent plate *c*, as and for the purpose specified.

CASPER ZWEIFEL.
EDWARD STEVENS.

Witnesses to both signatures:

CHARLES F. BRANCH,
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