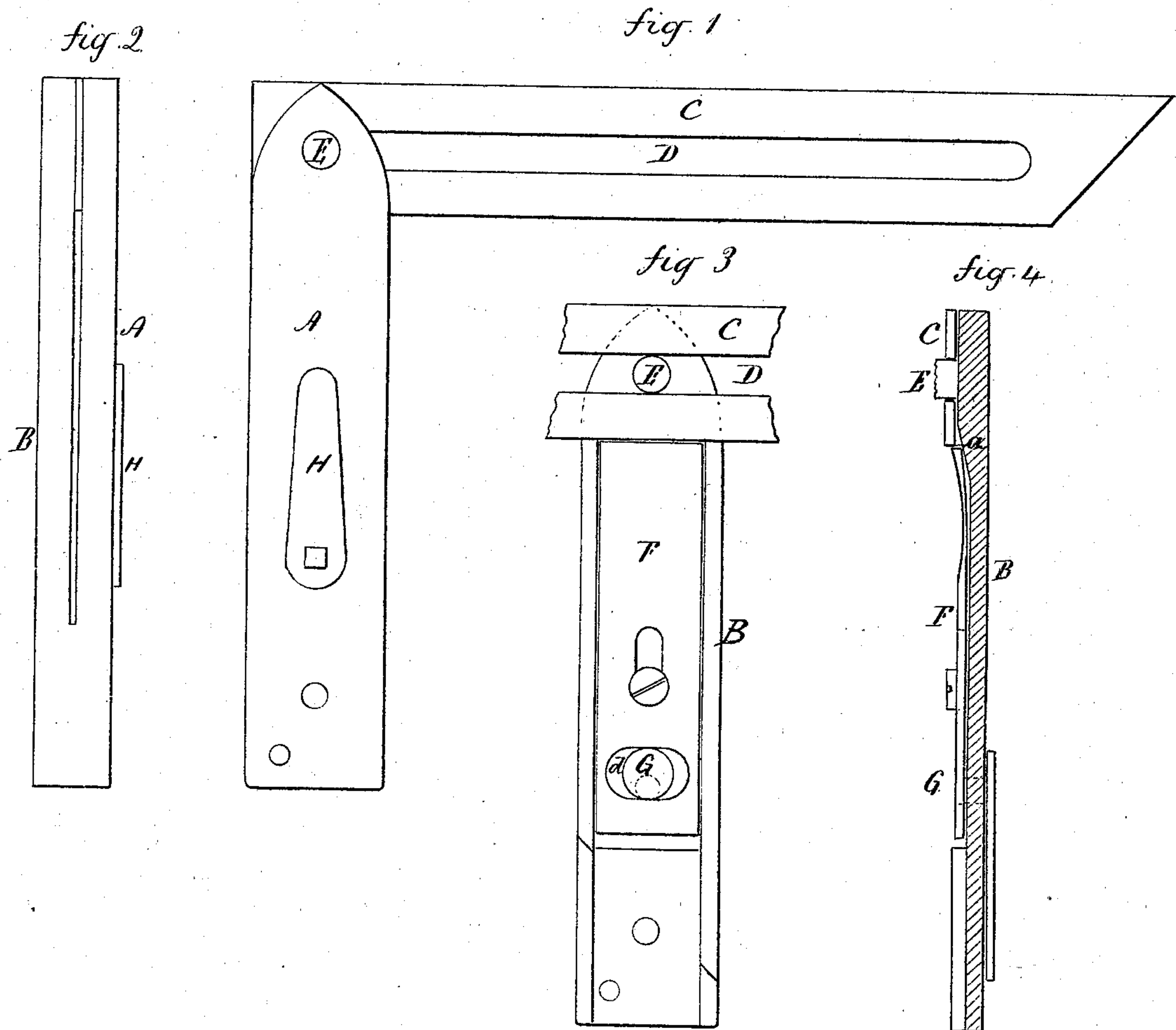


I. J. ROBINSON & HENRY FAIRBANKS.

Improvement in Carpenters' Adjustable Bevels.

No. 125,617.

Patented April 9, 1872.



Witnesses

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UNITED STATES PATENT OFFICE.

ISAIAH J. ROBINSON AND HENRY FAIRBANKS, OF ST. JOHNSBURY, VT.

IMPROVEMENT IN CARPENTERS' ADJUSTABLE BEVELS.

Specification forming part of Letters Patent No. 125,617, dated April 9, 1872.

To all whom it may concern:

Be it known that we, ISAIAH J. ROBINSON and HENRY FAIRBANKS, of St. Johnsbury, in the county of Caledonia and State of Vermont, have invented a new Improvement in Adjustable Squares; and we do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute a part of this specification, and represents, in—

Figure 1, a front view; Fig. 2, a side view; Fig. 3, the same with a portion of the handle removed; and in Fig. 4, a vertical central section of Fig. 2.

This invention relates to an improvement in the instrument known as bevel or adjustable squares, the object being to construct the instrument so that the blade may be adjustable to any angle, and be firmly and securely set when in position of a right-angle, or at any other previously-determined angle; and the invention consists, first, in the arrangement of a sliding piece within the handle, combined with the blade, and constructed so that a longitudinal movement imparted to the said sliding piece will at the same time give to the said sliding piece a transverse movement, presenting the end of the said sliding piece to the edge of the blade, and which, forced against the edge of the blade, sets the blade to the angle indicated by the end of the slide; second, in combining with a slide, constructed as above, a device for securing the said sliding piece in position.

A is one side of the handle, and B the other side, constructed and united at their lower end so as to form a slit between the two parts to receive the blade C, the blade having a slot, D, working over a pivot, E, in substantially the usual manner. One side of the handle, here represented as B, is chambered out, as seen in Figs. 3 and 4, to receive the piece F fitted therein so as to have a longitudinal movement, its upper end, or the end nearest

the blade being formed upon the angle at which it is desired to set the blade, usually a right angle. This recess or chamber is provided with an incline, *a*, as seen in Fig. 4, so that moving the said piece F longitudinally the upper end will ride up on the said incline, and be thereby forced outward into the slit and come beneath the blade, as seen in Fig. 4; but when drawn back, as denoted in the broken lines, Fig. 4, the said piece is entirely within the recess in the handle, and will allow the free turning of the blade, as in common bevels; but when the angle determined by the end of the piece F is required, the piece F is forced up against the edge of the blade, which brings the blade to that defined position, and there the blade may be set in the usual manner for setting the blade in other bevels, or otherwise.

To thus actuate the slide we combine with the said slide a mechanism, here represented as an eccentric, G, having a bearing in the handle, and working in a slot, *d*, in the said slide, so that by the turning of the said eccentric to the position denoted in Fig. 3 the slide is thrown up; or turning down, as denoted in broken lines, Fig. 3, the slide is drawn back; and this is here represented as being done by a lever, H, outside the handle; but other equivalent devices for moving and securing the slide in position may be employed.

We claim as our invention—

1. The sliding piece F, having a combined longitudinal and transverse movement, so as by the said movement to present itself to the blade to set the blade at right angles, or to withdraw when not required for this use, substantially as described.

2. In combination with the subject-matter of the first clause of claim, we claim the eccentric G, or equivalent, for securing the said piece F in position, substantially as described.

I. J. ROBINSON.

Witnesses: HENRY FAIRBANKS.

THADDEUS FAIRBANKS,

A. N. FAIRBANKS.