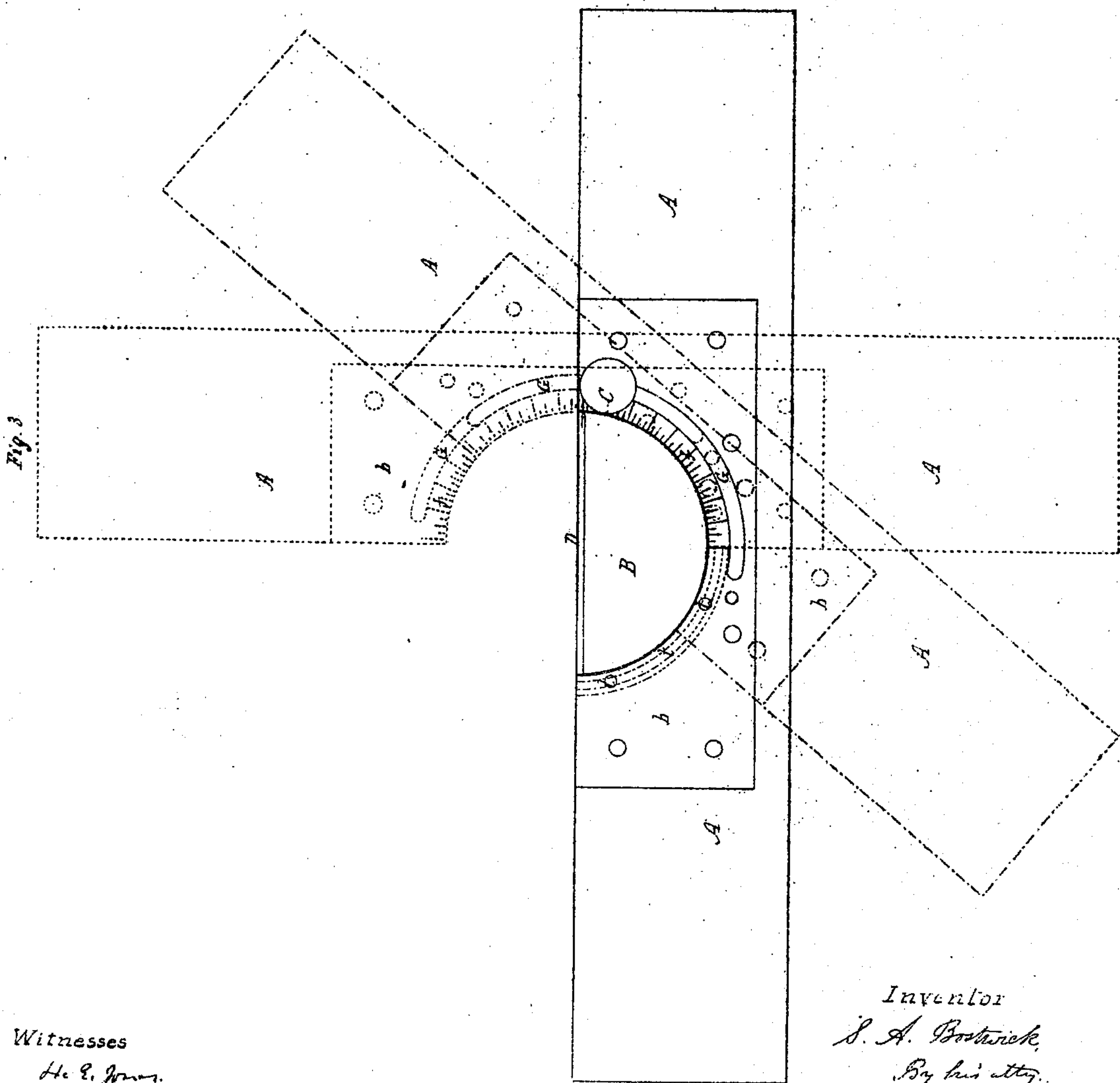
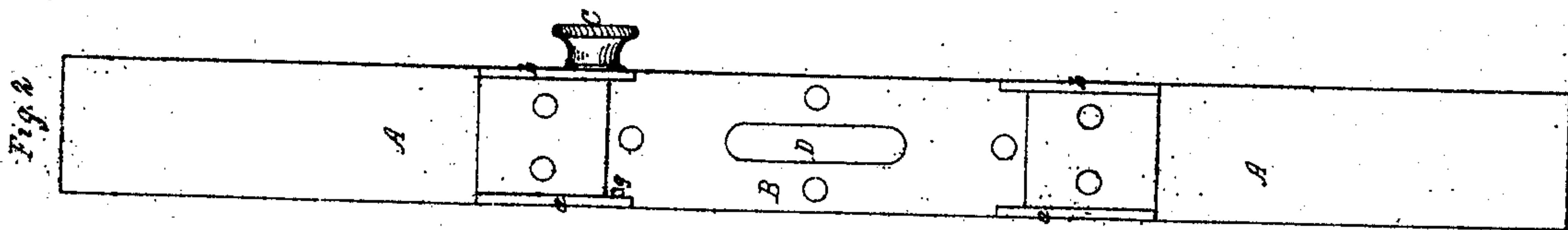
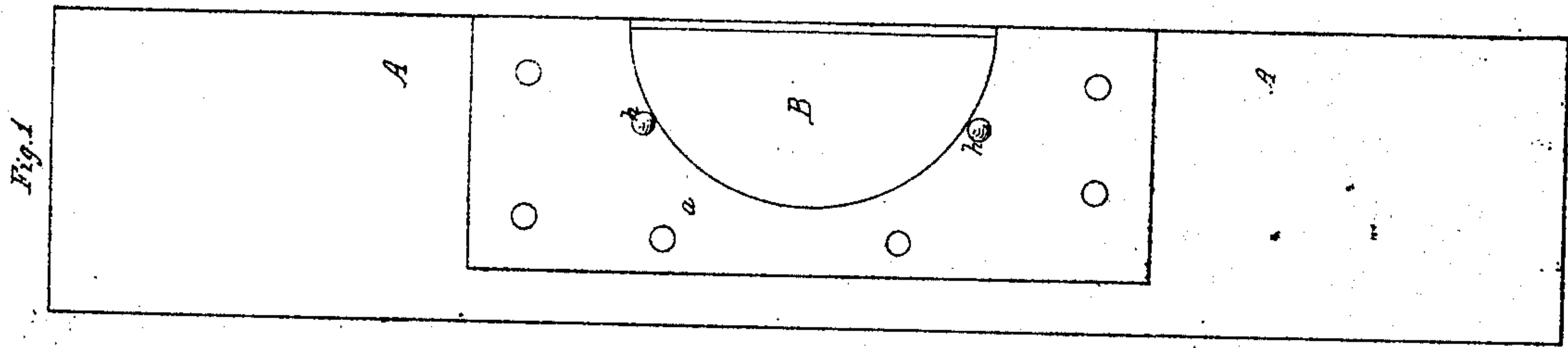


*S. A. Bostwick.*

*Plumb & Level.*

*Nº 72159*

*Patented Dec. 17, 1867.*



Witnesses

*He E. Jones.  
Herman Day.*

Inventor

*S. A. Bostwick.*

*By his atty.,*

*J. S. Brown.*

# United States Patent Office.

S. A. BOSTWICK, OF LACONIA, NEW HAMPSHIRE.

*Letters Patent No. 72,159, dated December 17, 1867.*

## IMPROVEMENT IN PLUMBS AND LEVELS.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, S. A. BOSTWICK, of Laconia, in the county of Belknap, and State of New Hampshire, have invented an Improved Plumb and Level; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification.—

Figure 1 being a left side view of the instrument.

Figure 2, a front edge view thereof.

Figure 3, a right side view of the same, showing the stock in different positions for plumbing, levelling, and determining inclinations.

Like letters designate corresponding parts in all of the figures.

In one edge of the stock A of the level, is formed a semicircular space, in which fits a semicircular spirit-block, B, which contains the spirit-vial or tube D. This block has a turning movement in the concave space, a quarter of a circle, so that it may be moved from a vertical position parallel with the stock, as in fig. 1, to a horizontal position at right angles to the stock, as indicated by the block B; (represented in black lines,) in relation to the vertical position of the stock, as indicated by red lines in fig. 3. And it may, of course, have any intermediate angle or inclination between these two positions, as indicated by the relation of the block to the stock in blue lines, in the said fig. 3. The block is guided in its movements by semicircular grooves in its surfaces, as shown at *g*, (fig. 2,) and at *i*, (fig. 3,) into which grooves studs or screws *h h* and *l l* project in through the plates or mountings *a b*, substantially as represented. These studs or screws also act as stops, to limit the movement of the block, at the parallel position in one direction, and at the right-angled position in the other direction, those grooves being closed at the ends, so as to act as a limit in connection with the stops. The block is adjusted to and confined in any position required, by means of a thumb-screw, C, reaching in through a nearly semicircular slot, G, in one of the mounting-plates *b* of the stock, into a projection of the block, serving as a nut to tighten the thumb-screw. A scale or protractor, *f*, on the mounting-plate, marked with the degrees of the quadrant, indicates the angle of the stock at any time. In fig. 3, the block B is represented as level, while the stock A is shown in red lines for plumbing, black lines for levelling, and blue lines for determining inclinations.

What I claim as my invention, and desire to secure by Letters Patent, is—

The semicircular spirit-block B, fitting and adjusting in the semicircular space in the stock A, arranged and operating substantially as and for the purpose herein specified.

I also claim the grooves *g* and *i*, and stops *h* and *l*, combined and arranged substantially as and for the purpose set forth.

The above specification of my improved plumb and level signed by me, this twenty-second day of June, 1867.

S. A. BOSTWICK.

Witnesses:

E. A. HIBBARD,

A. C. LEAVITT