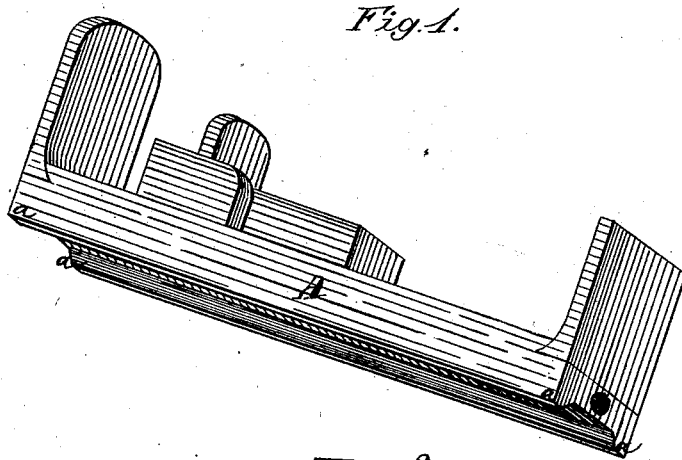


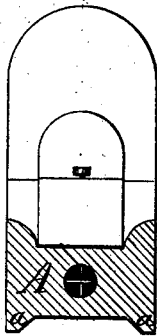
F. T. WARD & T. BEDWORTH.  
Spirit-Levels.

No. 198,909.

Patented Jan. 1, 1878.



*Fig. 2.*



*Attest:*  
*Jno P. Brooks.*  
*August Peterson.*

*Inventor:*  
*Frederick T. Ward, by Thos. Bedworth,*  
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*Attorneys*

# UNITED STATES PATENT OFFICE.

FREDERICK T. WARD AND THOMAS BEDWORTH, OF MOHAWK, NEW YORK.

## IMPROVEMENT IN SPIRIT-LEVELS.

Specification forming part of Letters Patent No. **198,909**, dated January 1, 1878; application filed June 23, 1877.

*To all whom it may concern:*

Be it known that we, FREDERICK T. WARD and THOMAS BEDWORTH, of Mohawk, in the county of Herkimer and State of New York, have invented certain new and useful Improvements in Levels; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view, and Fig. 2 is a cross-section.

Similar letters of reference indicate corresponding parts in all the figures.

This invention relates to that class of levels used especially by masons; and the object thereof is to enable the operator to bed his level more rapidly and safely than can be done with levels of the ordinary construction.

In the drawings, A is the stock or body of the level, which may be made, either of wood or cast metal, in the ordinary way. Upon the sides thereof we form two ribs, *a a*, extending from one end of the stock to the other, and leveled off true. The edges of said ribs (which are, preferably, made of hard metal, without regard to what material the stock A is made of) may be quite sharp, in order to insure successful operation.

When, in leveling, the apparatus is placed upon a bed of stone (or bricks) and mortar, the crumbs of mortar, which, if the stock A were solid, would raise the level out of position, will be pushed in between the ribs *a a*, thus saving time in bedding the level, and causing the work to be done with a greater degree of precision and dispatch.

We are aware that ribs are frequently formed or placed upon the sides of solid bodies for strengthening or other purposes. This, therefore, we do not claim, broadly; but,

Having thus described our invention, we claim and desire to secure by Letters Patent of the United States—

In a mason's level, the stock or body A, having ribs *a a* formed or placed upon the sides thereof, and leveled off true, substantially as described, and for the purpose shown and specified.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

FREDERICK T. WARD.  
THOMAS BEDWORTH.

Witnesses:

WILLIAM HELMER,  
CHARLES A. PAUL.