(No Model.)

D. L. WERTS.

BEVEL.

No. 418,256. Patented Dec. 31, 1889.

Fig. 3.

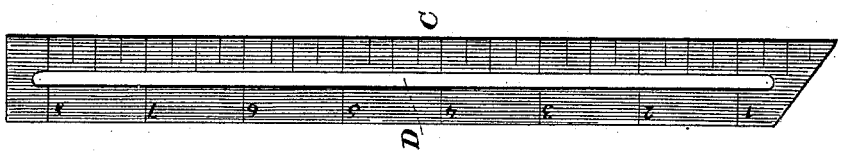

Fig. 2.

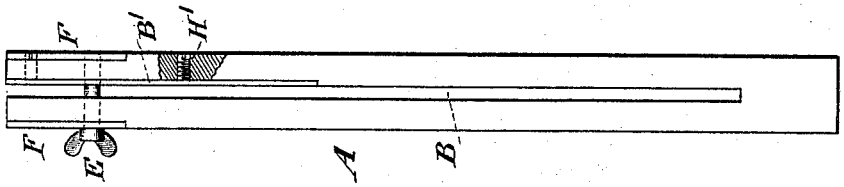

Fig. 4.

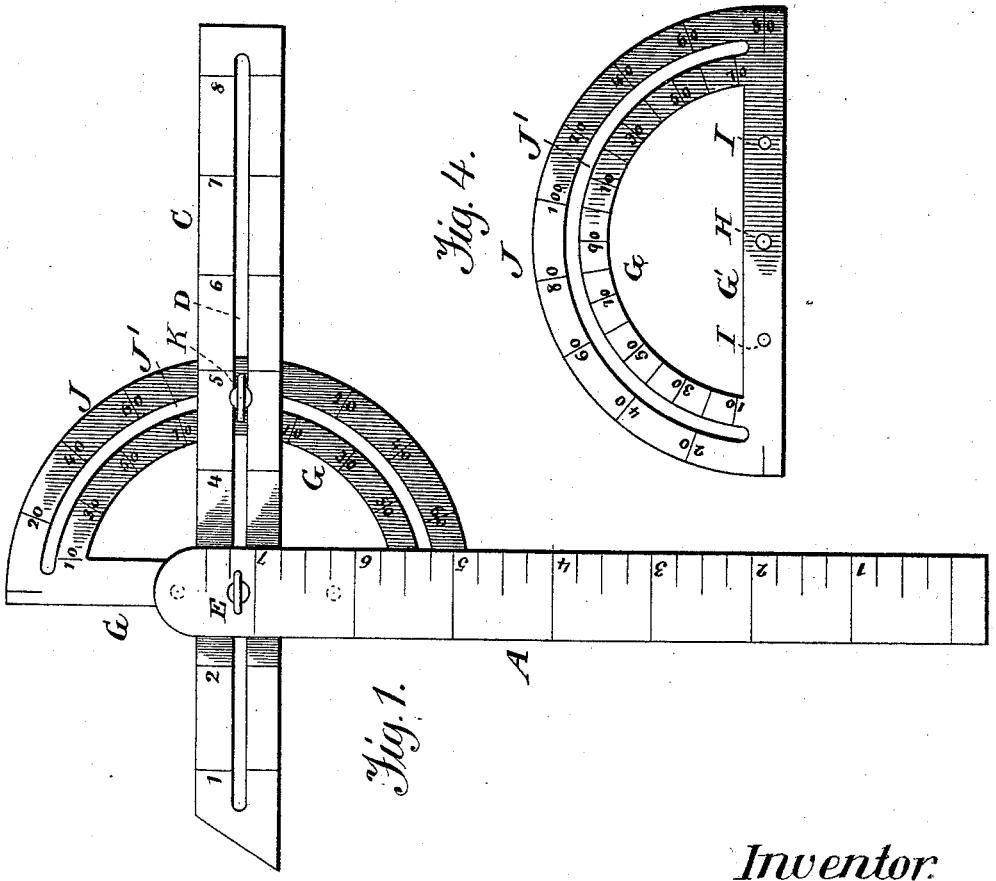

Fig. 1.

Witnesses.
A. Ruppert,
D. L. Loucks.

Inventor.
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by Franklin H. Hough

UNITED STATES PATENT OFFICE.

DAVID L. WERTS, OF CHATTANOOGA, TENNESSEE.

BEVEL.

SPECIFICATION forming part of Letters Patent No. 418,256, dated December 31, 1889.

Application filed July 16, 1889. Serial No. 317,708. (No model.)

To all whom it may concern:

Be it known that I, DAVID L. WERTS, a citizen of the United States, residing at Chattanooga, in the county of Hamilton and State of Tennessee, have invented certain new and useful Improvements in Adjustable Bevels; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in adjustable bevels; and it has for its object to improve upon prior constructions, and to generally simplify and render more efficient in operation this class of devices, and at the same time to provide an adjustable bevel which, when not in use, may be compactly folded within a small compass.

To these ends and to such others as the invention may pertain the same consists in the peculiar combinations and in the novel construction, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the accompanying drawings, and then specifically defined in the appended claim.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, like letters of reference indicating like parts throughout the several views, and in which drawings—

Figure 1 is a top plan view of an adjustable bevel constructed in accordance with my invention. Fig. 2 is an edge view of the handle. Figs. 3 and 4 are plan views of the blade and protractor, respectively.

Reference now being had to the details of the drawings by letter, A represents the handle, which may be made of either wood or metal and is provided upon its outer face with a graduated scale adapting it for use for board or lumber measuring. This handle is provided with a longitudinal slot B, which extends from one end of the handle to a point near its opposite end, as is clearly shown in Fig. 2 of the drawings.

C is the blade, which is provided with the usual measuring-scale. This blade is provided with a central longitudinal slot D, and is held at a point adjacent to the open end of the slot B in the handle by means of a thumb-screw E, passed transversely through the free end of the handle near the entrance to the slot therein, suitable wearing-plates F being provided upon either side, and the said thumb-screw is passed through the end of the handle and the longitudinal slot in the blade.

G is a protractor, the base or straight side of which G′ is fitted within the slot B within the handle, said slot being widened upon one of its sides at a point near its open end, as shown at B′, for the purpose of receiving such protractor.

The side G′ of the protractor is provided with a central hole H, through which is passed the thumb-screw E, and I are holes in the portion G′ of the protractor, through which and the holes H′ in the handle are passed screws which are intended to prevent the protractor from turning upon its pivotal point when it is designed to lock the said protractor in position for use, as shown in Fig. 1.

The arc or curved portion J of the protractor is provided with a circular slot J′, through which and the slot D in the blade is passed a thumb-screw K, by means of which the blade may be locked to the protractor, and thus adjusted at any angle at which it may be desired to set it, the same being accomplished by loosening the thumb-screw E and turning the blade upon its pivot either up or down, as the case may be, until the desired angle with reference to the direction of the handle is arrived at, this being determined by means of the graduated scale upon the arc of the protractor.

When not in use, the screws which are passed through the handle and extended into the protractor, serving to lock the same in position, are removed, and both the protractor and blade may be turned upon their central pivot and the blade folded within the handle.

Having thus described my invention, what I claim to be new, and desire to secure by Letters Patent, is—

As an improved article of manufacture, the

herein-described bevel, the same comprising, in combination, a handle provided upon its outer edge with a measuring-scale and having a central longitudinal slot, as described, a blade also provided with a longitudinal slot, a protractor the curved or arc portion of which is provided with a circular slot and its base or straight portion provided with a central hole and a plurality of holes I, as described, said blade and protractor being pivoted upon a set-screw passed through the handle and extended through the slot in the blade and the central hole in the base of the protractor, the protractor being adapted to be locked to the handle by means of screws passed through said holes I and holes H in the handle, and the pivoted blade adapted to be locked to the curved portion of the protractor by means of a set-screw passed through the slots in said blade and protractor, substantially as described, and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

DAVID L. WERTS.

Witnesses:
W. C. JONTE,
B. SCHWARTZ.