

E. W. MATHEWSON.

Lathe Gage.

No. 77,997.

Patented May 19, 1868.

Fig. 1

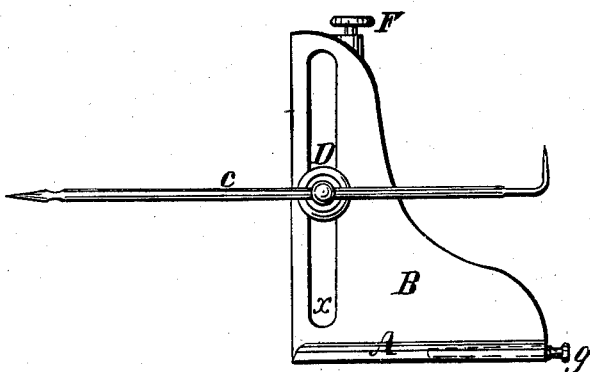
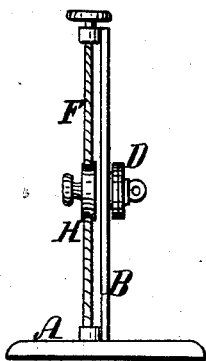


Fig. 2



Witnesses;

Wm. Handley
Concubus

Inventor;

E. W. Mathewson

Per

Alexander Thomson

Atty's

United States Patent Office.

E. W. MATHEWSON, OF NORWICH, CONNECTICUT.

Letters Patent No. 77,997, dated May 19, 1868.

IMPROVEMENT IN GAUGES.

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, E. W. MATHEWSON, of Norwich, in the county of New London, and in the State of Connecticut, have invented certain new and useful Improvements in Gauges; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and the letters of reference marked thereon.

My invention is designed for use by machinists, or other mechanics, and consists in so arranging a scratch-awl, with a smooth and level base, that the height or elevation desired may be marked upon the side of a regular or irregular face or surface, when the same is placed in a vertical or angular position.

In the annexed drawings, making a part of this specification, A represents a suitable base, made of hard metal, and perfectly true and smooth on the bottom thereof, and B represents a metallic plate, secured in a vertical position to said base.

The plate B is provided with a slot, X, as shown, in which fits and works a suitable shaft, through which the scratch-awl or bar C passes.

Upon the shaft, above described, are plates or flanges, D and H, one on each side of the plate B, as shown. The plate or flange D fits loosely over said shaft, and H is rigidly secured thereto, and is concave across its periphery, and provided with teeth or cogs, which mesh with the screw-thread of the shaft F.

The shaft F has bearings, near its opposite ends, and is situated by the side of and parallel with the plate B, and so as to mesh with and operate the wheel or plate H, and thereby the scratch-awl C.

The scratch-bar or awl C is made of any suitable dimensions, and inserted into and through one end of its shaft, and is bent at one end, as shown.

It will be seen that by turning the screw-shaft F, the point of the scratch-awl may be elevated or depressed, as may be desired, without any trouble, and by withdrawing said awl nearly out to the point, and turning it into a vertical position, the bent point will form a gauge for points higher than could otherwise be obtained by this device, or one of equal size.

This scratch-awl C may be tightened in its socket in any suitable manner, and its shaft may be adjusted up or down in the slot X in any convenient way.

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

The slotted support A B, in combination with the shaft, worm-wheel H, screw F, and pointer C, arranged and operating substantially as set forth.

In testimony that I claim the foregoing, I have hereunto set my hand, this 10th day of March, 1868.

E. W. MATHEWSON.

Witnesses:

H. A. ELLIS,

ALBERT S. BOLLES.