

No. 659,570.

Patented Oct. 9, 1900.

H. BROOKER & A. J. BAXTER.
MICROMETER OR SIMILAR GAGE.

(Application filed Mar. 13, 1900.)

(No Model.)

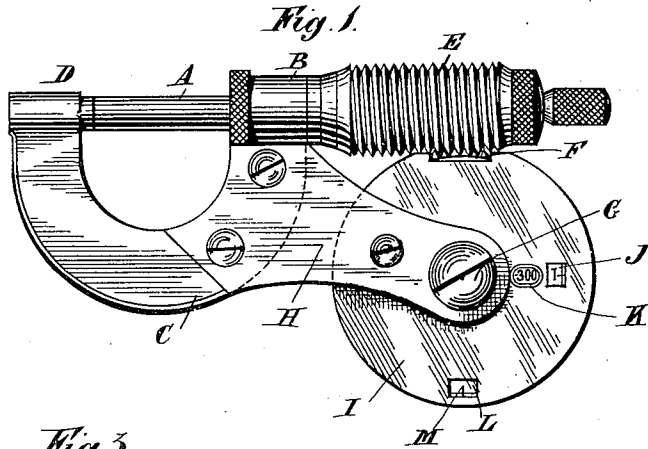


Fig. 3.

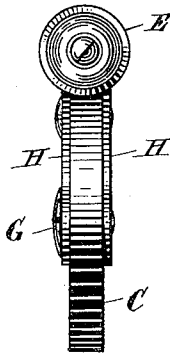


Fig. 4.

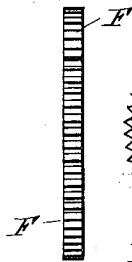


Fig. 5.

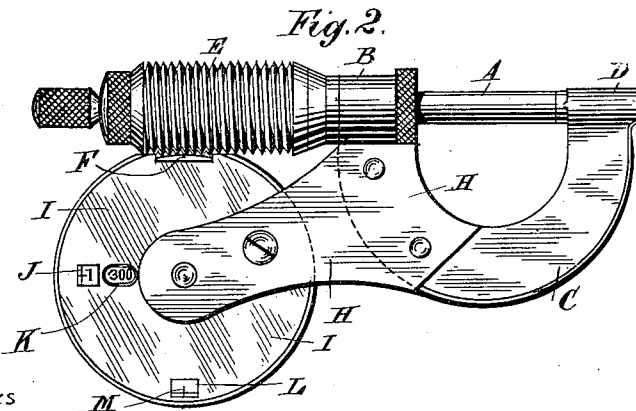
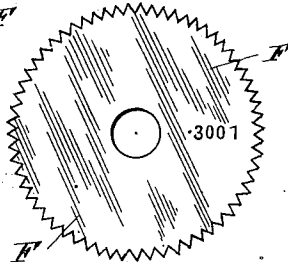


Fig. 2.

Witnesses

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UNITED STATES PATENT OFFICE.

HENRY BROOKER AND ALFRED JAMES BAXTER, OF LONDON, ENGLAND.

MICROMETER OR SIMILAR GAGE.

SPECIFICATION forming part of Letters Patent No. 659,570, dated October 9, 1900.

Application filed March 13, 1900. Serial No. 8,474. (No model.)

To all whom it may concern:

Be it known that we, HENRY BROOKER and ALFRED JAMES BAXTER, subjects of the Queen of Great Britain, residing at 31 to 35 Goswell road, London, England, have invented certain new and useful Improvements in Connection with Micrometer or Similar Gages, of which the following is a specification.

This invention consists in so arranging a gage that it not only shows the measurement or size in decimals of a wire, or sheet metal, or other material, but also shows the size or diameter of the same in several forms of gage known as the "Birmingham," "Standard," "Stubbs," and other gages. This we effect by constructing the micrometer in the following manner: A screw or worm is cut or placed upon the spindle, which has several threads geared into a disk or wheel placed so that the turning of the spindle turns the disk or wheel, which is engraved or marked with figures denoting the sizes in the various gages and decimals of same. At the same time a point attached to the framework points to lines forming a vernier on the disk or wheel or wheels and which may be covered on each side by side plates with slots or holes through which the above-mentioned figures are seen.

The accompanying drawings illustrate the invention, Figure 1 being an elevation of one side of a micrometer-gage, and Fig. 2 an elevation showing the other side. Fig. 3 is a back end view, and Figs. 4 and 5 are edge and face views of the toothed disk or wheel.

A is the spindle, mounted in bearing B, which is carried by frame C, with its butt-piece D, in the usual manner.

E is an accurately-gaged micrometer screw-

thread near the back end of the spindle A and gearing into a toothed disk F, which revolves on an axle-pin G, supported by extension-arms H, these being screwed or otherwise fixed to the frame C. These extension-arms also support side plates I, inclosing the disk F, which is graduated or marked with decimal measurements, also with the various sizes of gage known as the "Birmingham," "Standard," "Stubbs," and others, these showing through slots in the inclosing side plates on each side, as at J and K. The graduated disk F is further provided with a vernier-scale showing through the slot, as at L, a pointer M facilitating precision of reading or adjusting same.

What we claim, and desire to secure by Letters Patent, is—

In devices of the character described, the combination of the frame, of approximately U shape having parallel obliquely-arranged arms, the spindle provided with a worm along a portion of its surface, a peripherally-toothed disk geared up with said worm and having certain measuring data thereon, and mounted to suitably rotate, and lateral plates secured to said arms and having viewing-openings therethrough adapted to expose said data, substantially as specified.

In testimony whereof we have hereunto set our hands in presence of two subscribing witnesses.

HENRY BROOKER.
ALFRED JAMES BAXTER.

Witnesses:

EDMUND S. SNEWIN,
WM. O. BROWN.