

No. 765,322.

PATENTED JULY 19, 1904.

G. H. REOCH.
MICROMETER GAGE.

APPLICATION FILED MAY 2, 1904.

NO MODEL.

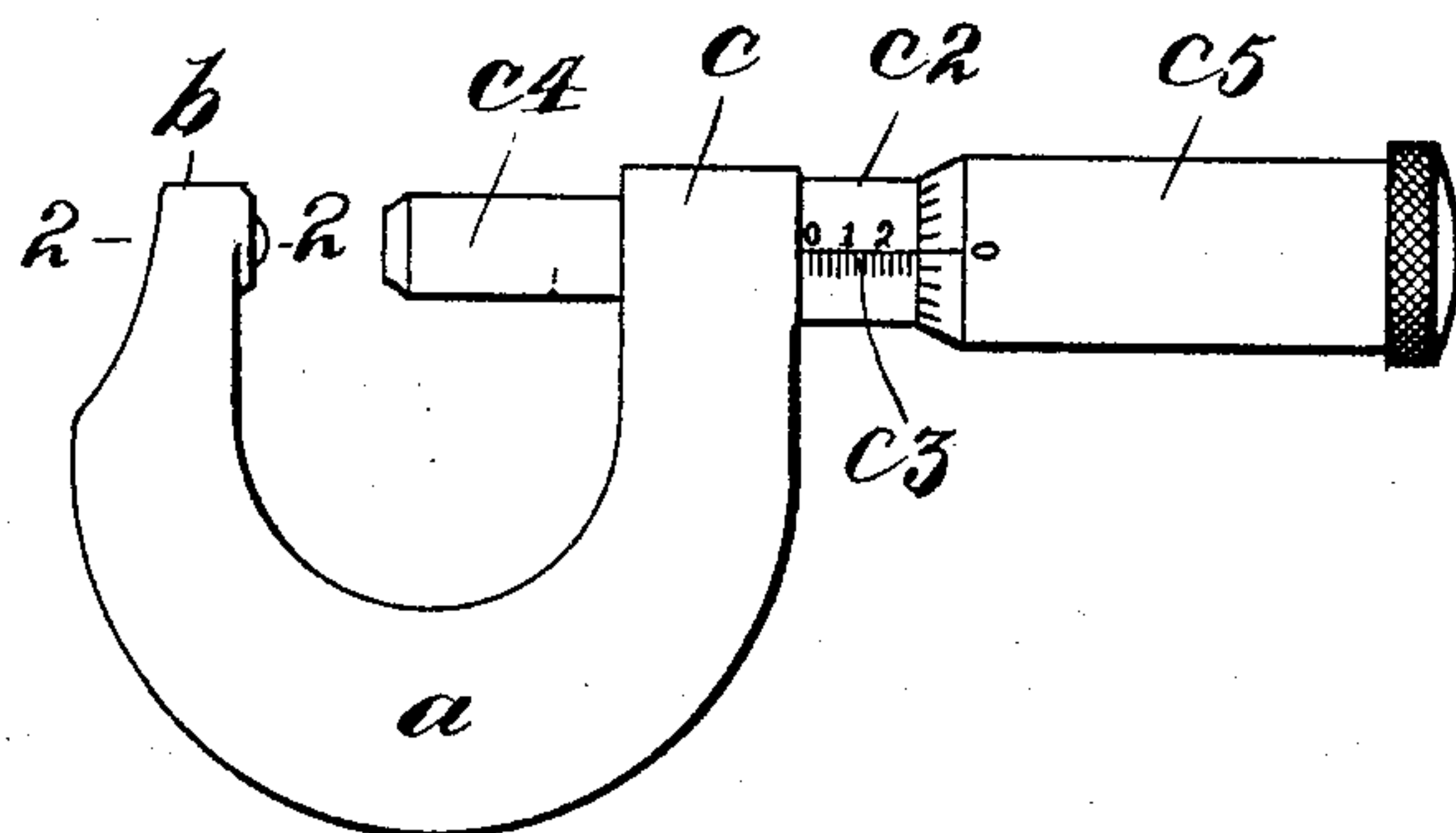


Fig. 1.

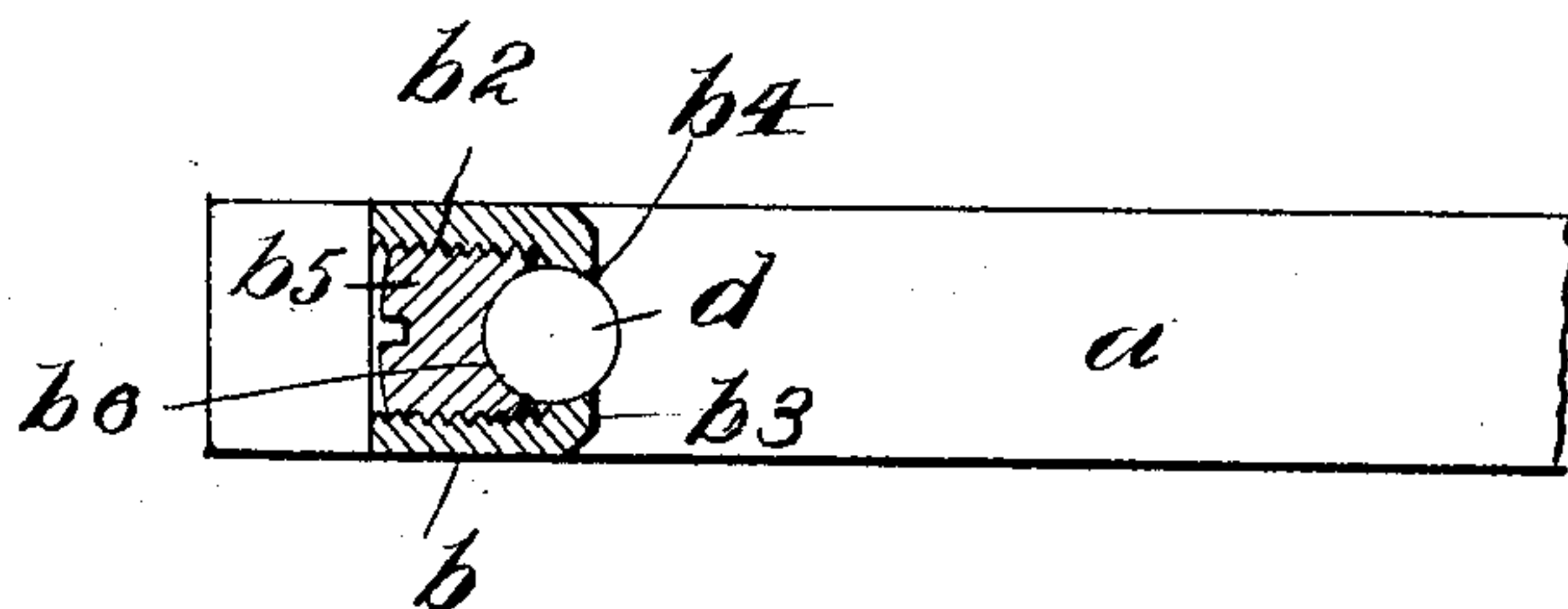


Fig. 2.

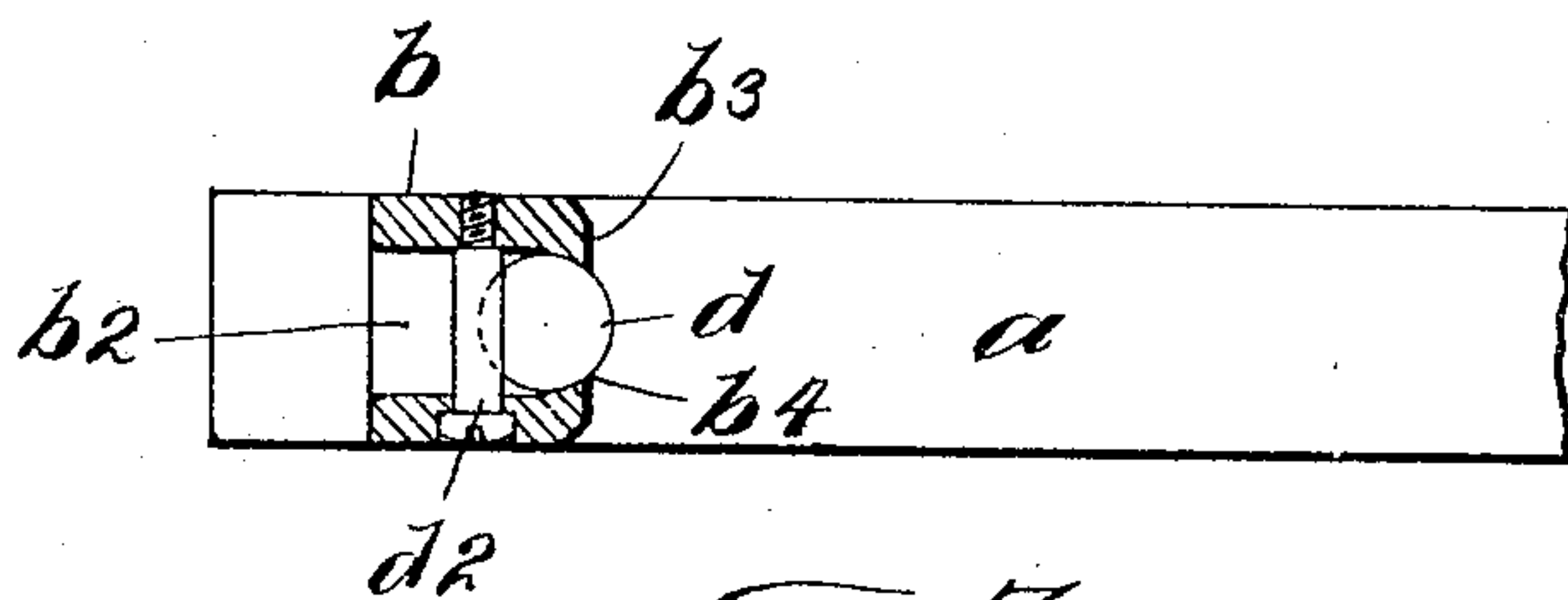


Fig. 3.

WITNESSES

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GEORGE H. REOCH, OF NEW YORK, N. Y.

MICROMETER-GAGE.

SPECIFICATION forming part of Letters Patent No. 765,322, dated July 19, 1904.

Application filed May 2, 1904. Serial No. 205,869. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. REOCH, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Micrometer-Gages, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to micrometer-gages or calipers; and the object thereof is to provide an improved anvil in connection with which the measuring screw or rod operates, my improved anvil consisting of a spherical ball or body which may be turned, so as to present a new bearing-point whenever necessary.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which—

Figure 1 is a side view of a micrometer-gage or caliper provided with my improvement; Fig. 2, a partial section on the line 2-2 of Fig. 1 on an enlarged scale; and Fig. 3, a view similar to Fig. 2, but showing a modification.

In the drawings forming part of this specification I have shown a micrometer-gage of the usual form and comprising a yoke or frame-piece *a*, having parallel jaws *b* and *c*. The jaw *c* is provided with the usual sleeve *c*², on which the scale *c*³ is formed, and the measuring rod or screw *c*⁴ passes through this sleeve and through the jaw *c* and is operated by the supplemental sleeve and handle-piece *c*⁵ in the usual manner, all of these parts being of the usual form and construction.

The jaw *b* of the yoke or frame-piece *a* is provided in the form of construction shown in Fig. 1, with a screw-threaded bore *b*² in line with the measuring rod or screw *c*⁴, and the bore *b*² is provided at its inner end with an inwardly-directed flange or rim *b*³, in which is a conical central opening *b*⁴, and the bore *b*³ is closed by a screw-threaded plug *b*⁵, having a recess *b*⁶, which is segmental in cross-section and adapted to receive a spherical steel ball *d*,

which constitutes my improved anvil and which when in position projects slightly from the inner side of the jaw *b*, as clearly shown in Figs. 1 and 2. The measuring rod or screw *c*⁴ operates in connection with the anvil *d*, and if at any time the projecting part of said anvil becomes worn so as to interfere with the operation of the device the plug *b*⁵ may be removed and the anvil turned or partially turned so as to present a new bearing-surface, and this operation may be repeated whenever necessary until the entire surface of the anvil *d* has become worn so that a new anvil must be substituted.

In the form of construction shown in Fig. 3 the anvil *d* is held in place by a pin, screw, or bolt *d*² passed transversely through the jaw *b* and through the bore *b*², and the screw, pin, or bolt *d*² bears on the inner side of the anvil, so as to securely hold it in place.

It is a well-known fact that devices of this kind soon become inoperative by reason of the fact that the anvil in connection with which the measuring screw or rod *c*⁴ operates becomes worn, and in such cases a new anvil must be provided or an entirely new gage; but with my improvement all that is necessary is to simply turn the anvil *d*, so as to present a new bearing-surface, and the ball which constitutes the anvil being made of steel lasts indefinitely or as long as the other parts of the tool will last.

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

A micrometer-gage provided with parallel jaws through one of which the measuring screw or rod is passed, the other jaw being provided with a spherical anvil which is secured therein and which is adapted to be turned therein, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 30th day of April, 1904.

GEORGE H. REOCH.

Witnesses:

F. A. STEWART,
C. J. KLEIN.