

No. 724,963.

PATENTED APR. 7, 1903.

A. G. SPAULDING.

CALIPERS.

APPLICATION FILED OCT. 14, 1902.

NO MODEL.

FIG. 2.

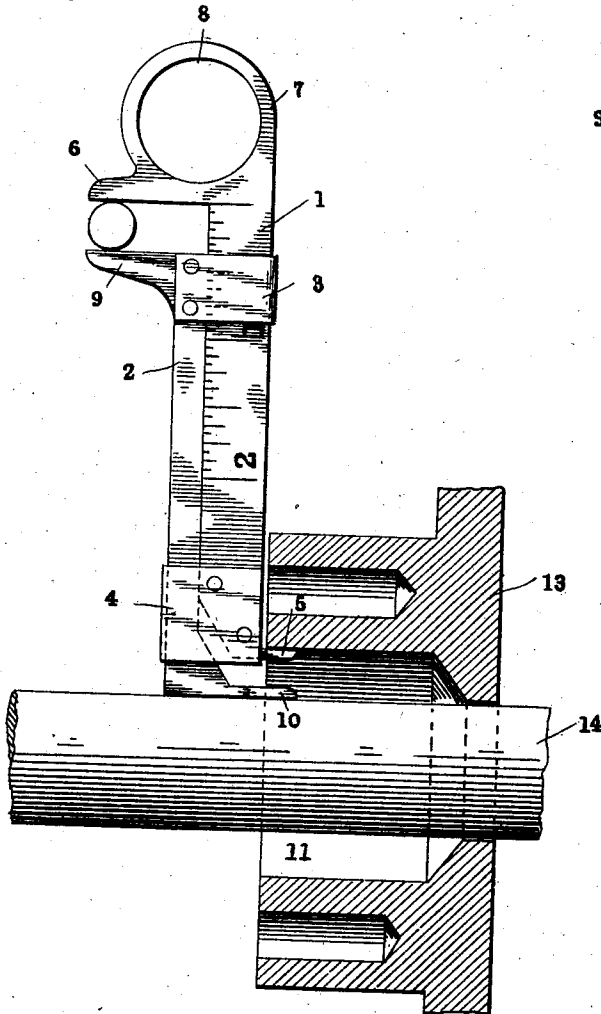


FIG. 1.

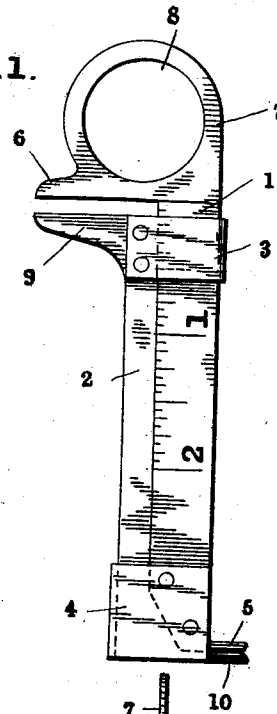
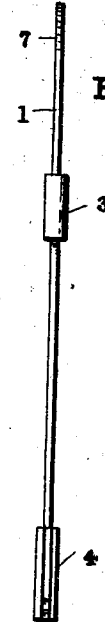


FIG. 3.



Witnesses

Chas. K. Davis.
W. Cleveland.

By

Alfred H. Spaulding
Alex. J. Wedderburn, Jr.

Inventor

Attorney.

UNITED STATES PATENT OFFICE.

ALFRED GUY SPAULDING, OF NORFOLK, VIRGINIA.

CALIPERS.

SPECIFICATION forming part of Letters Patent No. 724,963, dated April 7, 1903.

Application filed October 14, 1902. Serial No. 127,313. (No model.)

To all whom it may concern:

Be it known that I, ALFRED GUY SPAULDING, a citizen of the United States, residing at Norfolk, in the county of Norfolk and State of Virginia, have invented certain new and useful Improvements in Calipers, of which the following is a specification.

This invention relates to certain new and useful improvements in gages, and has for its primary object to provide means whereby the exact size of rod-packing required for steam-engines, pumps, &c., can be quickly and accurately determined.

Broadly, the invention contemplates the employment of two slidably-arranged members suitably connected together and provided at one of their ends with outside caliper-points and at their opposite ends with inside caliper-points.

It will be noted that various changes may be made in the details of construction without departing from the general spirit of my invention.

In the accompanying drawings, Figure 1 is a view and side elevation of the present invention. Fig. 2 is a similar view of the same applied to a stuffing-box of ordinary construction, the same being shown in vertical section; and Fig. 3 is an edge view.

1 and 2 indicate two bars slidably arranged one upon the other and prevented from lateral displacement by means of the approximately U-shaped clips 3 and 4, respectively, which clips are oppositely disposed, have their free ends rigidly secured to the respective bars, as is clearly shown in the drawings. The bar 1 is provided at its inner end with an outwardly-projecting angularly-disposed outside caliper-point 5, adjacent its outer end with the oppositely-arranged inside caliper-point 6. The extreme outer portion of the bar 1 is enlarged, as at 7, which enlarged portion is provided with a circular opening 8.

9 indicates the inside caliper-point of the adjacent bar 2, the said point being formed integral with the outer end of the bar 2 and lying in a plane parallel to that occupied by the adjacent caliper-point of the bar 1.

10 indicates the outside caliper-point and the outer bar 2 which point is similar in construction to the adjacent inside caliper-point of the bar 1.

In order to more clearly set forth the operation of my improvement, I have illustrated in the accompanying drawings a stuffing-box (indicated by the reference-numeral 11) and through which projects the rod 14.

Assuming now that the exact size of the packing required for the stuffing-box is desired, the gage is inserted in position, as indicated in Fig. 2, and the outside caliper-points 5 and 10, respectively, brought into engagement with the interior of the stuffing-box and the periphery of the rod 14 by adjusting the bars upon each other. This having been done, the space between the inside caliper 6 and 9, respectively, will indicate the size of the packing required, which will be apparent by referring to the bar 1, which is graduated.

The invention finally consists in the novel construction, combination, and arrangement of parts to be hereinafter more particularly described and pointed out in the claim.

Having fully described my invention, I claim—

A gage comprising a pair of bars of different widths, oppositely-arranged outwardly-projecting caliper-points formed integral with the opposite ends of the said bars, the points of the bars being parallel and forming inside and outside caliper-points respectively, the wider of said bars having at its outside caliper end an enlarged portion provided with an opening, and a U-shaped clip secured to the inside caliper end of each of said bars, and having the opposite bar slidably mounted therein, substantially as described.

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

ALFRED GUY SPAULDING.

Witnesses:

W. W. WOODHOUSE,
MILTON B. HOLMES.