No. 778,171. PATENTED DEC. 20, 1904.

M. COOK.

SHOE TIP GAGE.

APPLICATION FILED MAY 9, 1904.

NO MODEL.

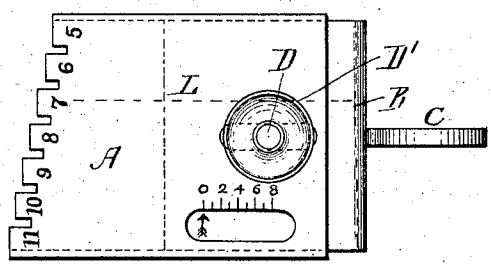


Fig. 1.

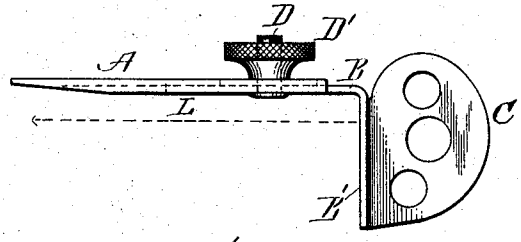


Fig. 2.

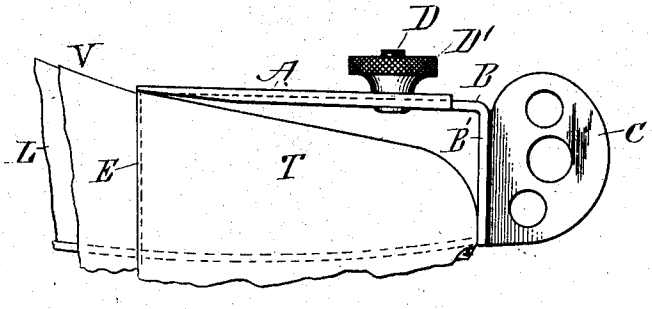


Fig. 3.

WITNESSES.

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No. 778,171. Patented December 20, 1904.

UNITED STATES PATENT OFFICE.

MILLER COOK, OF WHITMAN, MASSACHUSETTS.

SHOE-TIP GAGE.

SPECIFICATION forming part of Letters Patent No. 778,171, dated December 20, 1904.

Application filed May 9, 1904. Serial No. 207,186.

To all whom it may concern:

Be it known that I, MILLER COOK, a citizen of the United States, and a resident of Whitman, in the county of Plymouth and State of Massachusetts, have invented a new and useful Improvement in Shoe-Tip Gages, of which the following, taken in connection with the accompanying drawings, is a specification.

My invention relates to a gage used by boot and shoe lasters as a guide for drawing the toe part of a vamp over the toe of the last when a toe-tip is used; and it consists of an adjustable gage provided with step-by-step projections which are numbered to correspond to the sizes of boots or shoes.

The device is illustrated in the accompanying drawings, in which—

Figure 1 is a plan of my gage. Fig. 2 is a side elevation of the same. Fig. 3 illustrates the manner of using it.

In the drawings the base and handle of my gage are indicated by B B′ C. The vertical part B′ may be termed the "fixed rest" and is designed to be placed against the toe of the boot or shoe when the gage is being used. These parts may be made of any suitable metal and design.

The adjustable part or gage proper, A, is provided with a slot (indicated by dotted lines, Fig. 1) through which a screw-threaded post D projects. The said post is rigidly attached to the part B. A finger-nut D′ engages with the screw-post D and serves to clamp the gage proper, A, in any desired position. The gage proper, A, is provided with a number of step-by-step projections which have designating numbers "1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11," which correspond to the different sizes of shoes as ordinarily manufactured for the trade.

In shoe-factories it is usual to designate the length of the tip to be used by giving the length desired for the size 7, and the operator makes an allowance for the other sizes—that is, for a size 6 he subtracts one-sixteenth of an inch, for a 5 two-sixteenths, and for larger sizes he adds one-sixteenth for each. Thus if a series of short tips are to be used then the gage is set so that the distance measured (on line L) from the vertical surface B′ to the end of the projection ("7") will be two inches and the gage can be used for all sizes without change. The scale marked "0, 2, 4, 6, 8" on the part A is made for the purpose of saving the time that would be taken up in measuring on the line L if there were no scale attached. The said scale is so arranged that when the arrow on the part B points to zero of the scale the gage is set for use on all sizes of shoes, the assumed length of tip for size 7 being two inches—that is, the shortest. If a longer tip is to be used—say, two and two-sixteenths for the size 7—then the gage will be set so that the arrow will point to division "2" of the scale, and so on for other lengths of tips.

The use of my gage is shown in Fig. 3, in which T indicates the tip, V the vamp, and L the last. The operator in the process of lasting the toe part draws the vamp and tip over the end of the last until the end E of the tip coincides with the end of the projection (that corresponds with the size of the shoe)—that is, if the shoe is of the size 8—for instance, then the projection numbered "8" will be used, and so on.

If desirable, the gage may be mounted on a stand within reach of the operator.

I claim—

A shoe-tip gage comprising a base having two members, one member serving as a plate for the gage proper to slide upon, the other member serving as a fixed rest to abut the toe of the shoe against; and a gage-piece adjustably attached to the said plate and having its end provided with step-by-step projections, substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 30th day of April, A. D. 1904.

MILLER COOK.

Witnesses:
FRANK G. PARKER,
WILLIAM EDSON.