Jan. 8, 1946. C. W. EISELE 2,392,317

PLUG GAUGE

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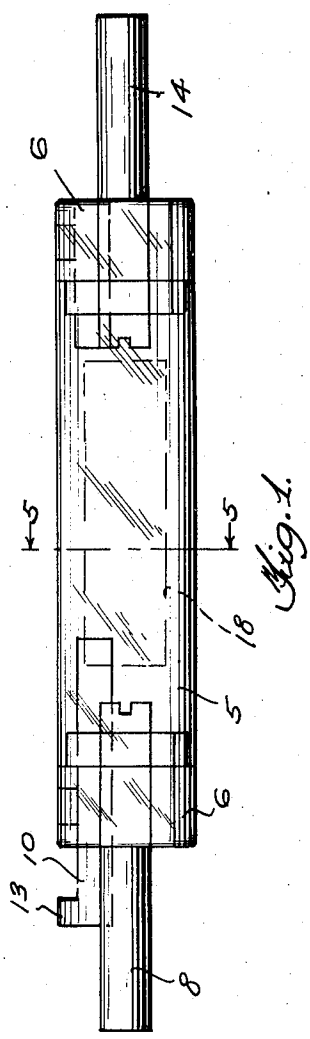


Fig. 1.

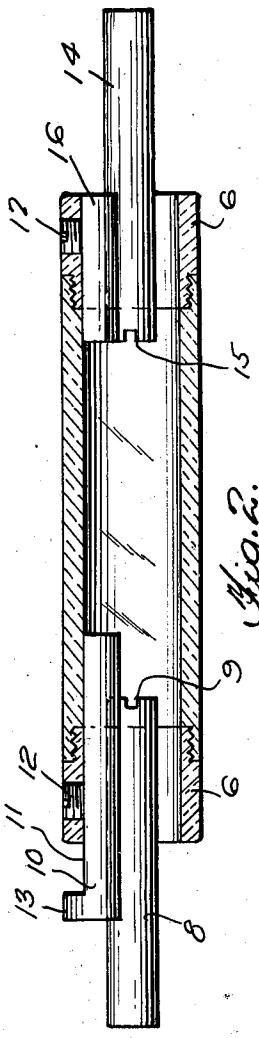


Fig. 2.

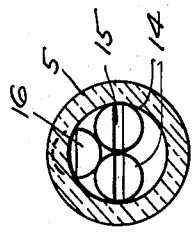


Fig. 5.

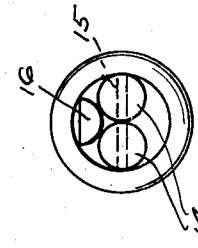


Fig. 4.

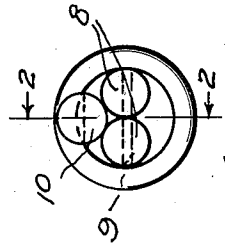


Fig. 3.

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PLUG GAUGE

Chester W. Eisele, Harvey, Ill.

Application May 17, 1943, Serial No. 487,319

2 Claims. (Cl. 33—168)

The present invention relates to double ended plug gauges of the "go" and "not go" type whereby the operator may conveniently first try the "go" gauging end of the tool and then the "not go" end, if necessary, to determine accurately when the opening in the work is of a predetermined dimension.

An important object of the present invention is to provide means for effectively locking the "go" gauge rod in position in the handle of the tool in a manner to easily and quickly remove and replace the rod when the same becomes worn.

A further object is to provide a tool of this character of simple and practical construction, which is efficient and reliable in use, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawing forming part hereof, wherein like reference numerals refer to like parts throughout, and in which:

Figure 1 is a side elevational view.

Figure 2 is a longitudinal sectional view.

Figure 3 is an end elevational view of the "go" end of the gauge.

Figure 4 is a similar view of the "not go" end, and

Figure 5 is a transverse sectional view taken on a line 5—5 of Figure 1.

Referring now to the drawing in detail, the numeral 5 designates a hollow cylindrical barrel or handle of transparent material having tubular metallic extensions 6 threaded in each end of the handle.

A pair of cylindrical gauge rods 8 are closely fitted in the outer end of one extension of a proper diameter to form the "go" gauge rods, the inner ends of the rods having kerfs 9 for rotating the rods by a screw driver.

A locking key 10 of semi-cylindrical form is also inserted in the extension, the rounded side of the key bearing against the two rods and the flat side 11 of the key engaged by a set screw 12 threaded through the wall of the extension. The outer end of the key is uniformly shaped in its cylindrical form to provide a finger gripping head 13.

The other extension is also provided with a pair of "not go" gauge rods 14 also formed with a kerf 15 at their inner ends and secured in position by a semi-cylindrical locking key 16 held in position by a set screw 17.

A label 18 is placed in the handle having the desired data printed thereon to indicate the number and size of the gauge.

When the work contacting surfaces of the gauge rods become worn the plugs may be rotated by means of a screw driver to bring new faces into position for use.

The locking key 13 may also be used as a depth gauge and the provision of the double plug ends affords many advantages, such as the checking of round hole conditions, the elimination of air vents for dead end holes, and permits a reversal of the plug members to prolong the life thereof.

It is believed the details of construction, operation and manner of use of the device will be readily understood from the foregoing without further detailed explanation.

Having described the invention, what is claimed as new is:

1. A plug gauge comprising a tubular holder, a pair of cylindrical gauge rods positioned longitudinally in contacting parallel relation in the holder, means on the inner ends of the rods for rotatably adjusting the rods, and means for locking the rods against longitudinal movement in the holder.

2. A plug gauge comprising a tubular holder, a pair of cylindrical gauge rods positioned longitudinally in contacting parallel relation in the holder, and semi-cylindrical locking keys removably inserted in wedging contact between the pair of rods and the holder.

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