May 20, 1958 J. F. GULYBAN 2,835,046

SCREW-THREAD GAUGE

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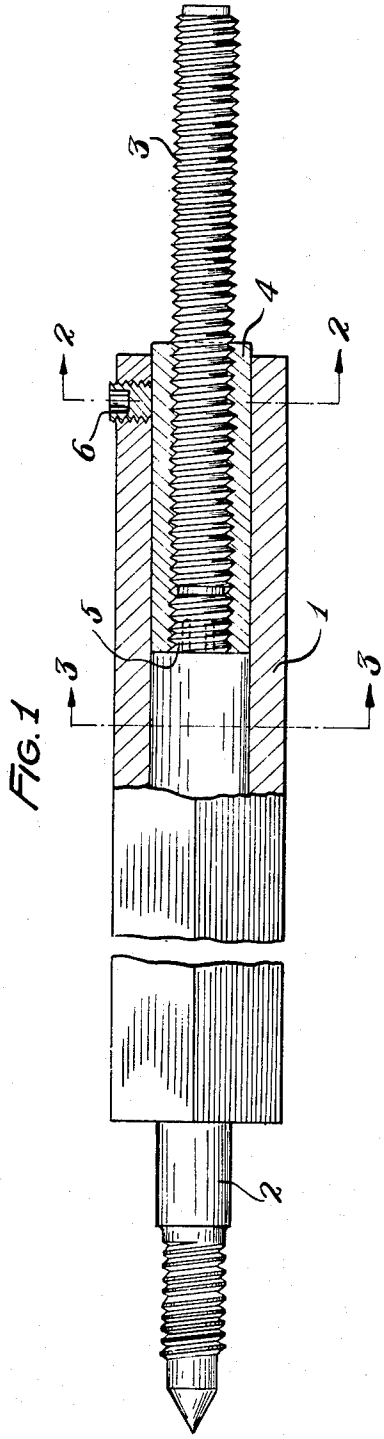


FIG. 1

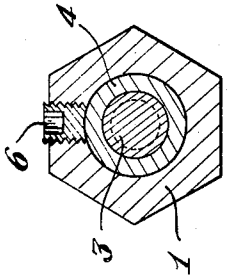


FIG. 2

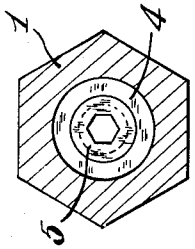


FIG. 3

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SCREW-THREAD GAUGE

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2 Claims. (Cl. 33—199)

This invention is for an improved screw-thread gauge.

My present improvement relates to the well-known form of screw-thread gauge which has a polygonal-shaped handle or holder portion with a screw-threaded member affixed within each end thereof. One end is marked "Go" and the other end is marked "No Go"; which of course means that when the threaded member at the "Go" end fits within the hole that has been tapped but the threaded member at the "No Go" end can not be screwed into the tapped hole, then the thread of the tapped hole is correct.

Because of the special character of the metal in the screw-threaded member at the "Go" end and its required accuracy and dependability, it is rather an expensive item; and thus when it becomes necessary to replace this screw-threaded member due to breakage or wear, as is often the case, there is entailed considerable expense.

It is therefore the object of my present invention to devise a means whereby the screw-threaded member at the "Go" end of such a gauge may, in the event of breakage, be readily moved outwardly along its holder or handle or, in case it becomes worn so that it is under-size, it may be reversed; thereby prolonging the life of usefulness of this threaded member with a corresponding saving in cost over a prolonged period of time.

A further object consists in the specific form of structure which makes possible this improvement, as hereinafter more fully disclosed.

Other objects will appear from the following description and claims when considered together with the accompanying drawing.

Fig. 1 is a view, partly in section and partly in elevation, of a screw-thread gauge embodying my present invention;

Fig. 2 is a view taken on line 2—2 of Fig. 1; and

Fig. 3 is a view taken on line 3—3 of Fig. 1.

It is to be understood that the present form of disclosure is merely for the purpose of illustration and that there might be devised various modifications thereof without departing from the spirit of my invention as herein set forth and claimed.

Referring now to the accompanying drawing in detail, the conventional and familiar polygonal form of handle or holder 1 has a screw-threaded member 2 affixed within the "No Go" end thereof, and the screw-threaded member 3 removably and adjustably mounted within the "Go" end thereof. Although my present illustration shows only the manner of mounting the screw-threaded member 3 within the holder or handle 1 at the "Go" end thereof, it is to be understood that this same invention may be provided at the "No Go" end also.

According to my present invention, I mount the screw-threaded member 3 within an internally screw-threaded bushing 4 of softer metal than that of the member 3 and secure the member 3 therewithin by means of the

Allen set screw 5 which will have binding engagement with the inner end of the screw member 3. The bushing 4, in turn, is secured within the handle or holder 1 by means of the Allen set screw 6 which may have its outer end flush with the surface of the handle 1. Engagement of the inner end of the set screw 5 with the inner end of the screw-threaded member 3 will prevent the same from accidentally turning and thus the member 3 will be retained in the position in which set. The bushing 4 may be of any desired length and will be sufficiently long to ensure the firm positioning of the screw-threaded member 3 therewithin and also to allow suitable extent of adjustment of the member 3 therewithin.

Thus, upon breaking of the screw-threaded member 3, it can be readily removed with its bushing by merely loosening the set screw 6 and the set screw 5 may be released so as to permit member 3 to be moved outwardly along the bushing, whereupon the set screw 5 may be again set so as to hold the member 3 in the set position. Or, in case of wear of the member 3, it may be reversed longitudinally within its bushing 4 by first loosening the set screw 6 so as to remove the bushing and then releasing the set screw 5 so as to free the member 3 for the reversing of the same, whereupon the set screw 5 will again be tightened against the inner end of the member 3 so as to hold it in its new position.

It will therefore be seen that I have devised an improvement that is calculated to prolong the life of usefulness of the screw-threaded member 3 and also of the member 2; and, from actual experience, this improvement should mean a substantial saving annually in the average shop where such a gauge is used. Moreover, this improvement is of a simple nature and is not at all costly to provide.

What I claim is:

1. A screw-thread gauge comprising a rigid holder having a hollow end with uniform inside diameter throughout, a bushing with uniform outside diameter throughout removably and longitudinally adjustably mounted within the hollow end of said holder, a readily removable set screw for holding said bushing in position, a screw-threaded member removably and longitudinally adjustably mounted within said bushing, and a readily removable set screw for holding said screw-threaded member within said bushing.

2. A screw-thread gauge comprising a rigid holder having a hollow end with uniform inside diameter throughout, a bushing of comparatively soft material with uniform outside diameter throughout removably and longitudinally adjustably mounted within the hollow end of said holder, a readily removable set screw for holding said bushing in position, a screw-threaded member of comparatively hard material having longitudinally adjustable screw-threaded engagement within said bushing, and a readily removable set screw for holding said screw-threaded member within said bushing.

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