No. 804,067. PATENTED NOV. 7, 1905.

H. W. STOWE.

GAGE.

APPLICATION FILED JAN. 18, 1905.

Fig. 4

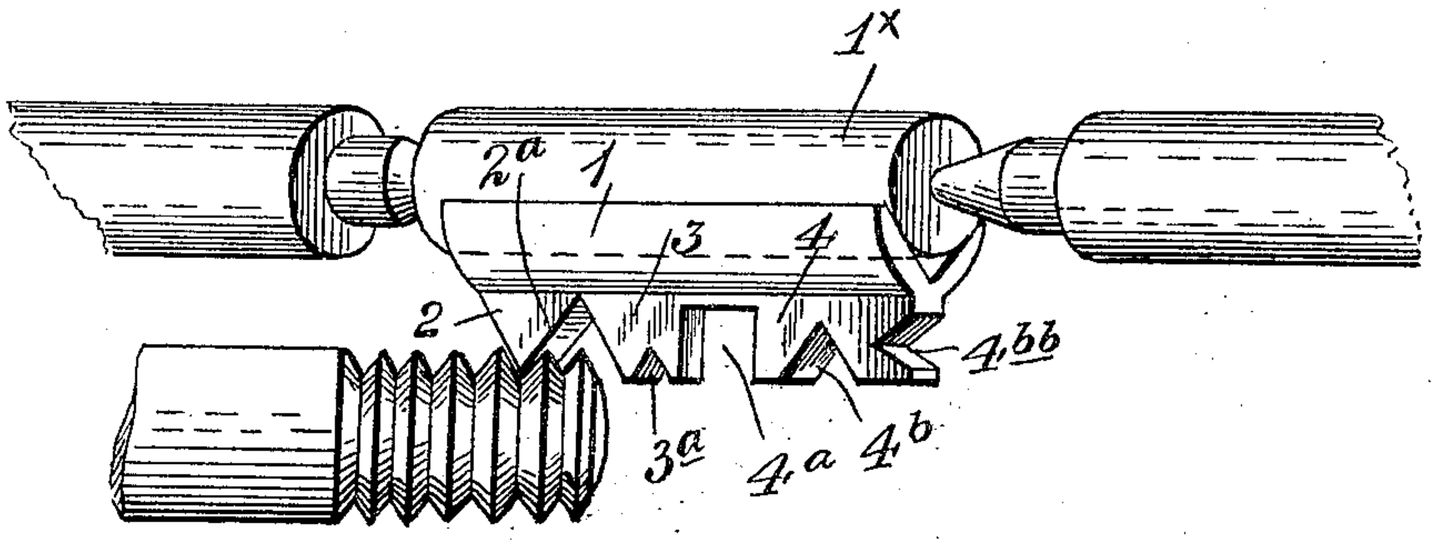


Fig. 2.

Fig. 3.

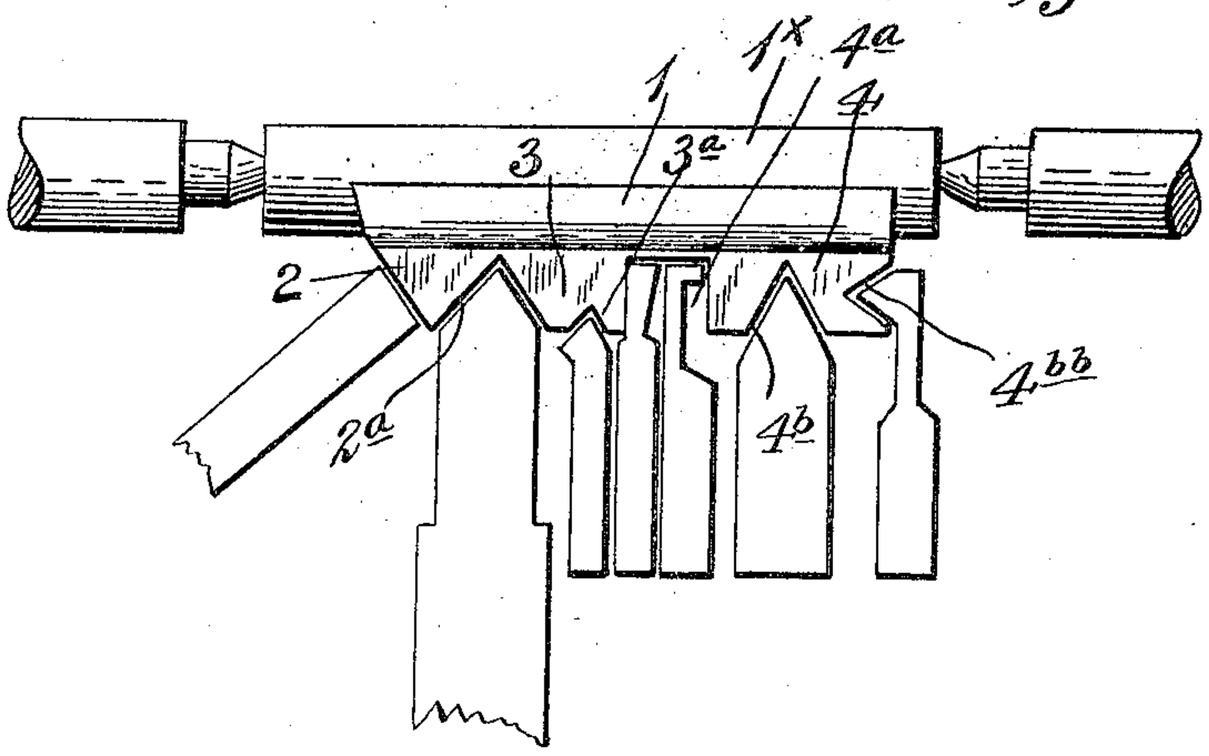
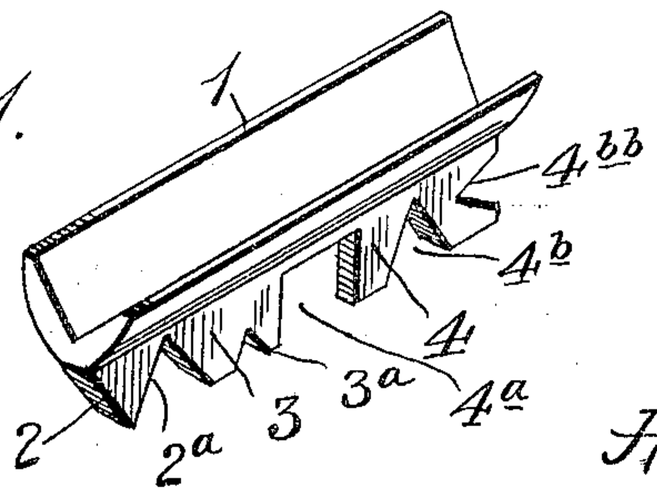


Fig. 1.



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UNITED STATES PATENT OFFICE.

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GAGE.

No. 804,067. Specification of Letters Patent. Patented Nov. 7, 1905.

Application filed January 18, 1905. Serial No. 241,677.

To all whom it may concern:

Be it known that I, HARRY W. STOWE, a citizen of the United States, residing at Fitchburg, in the county of Worcester and State of Massachusetts, have invented new and useful Improvements in Gages, of which the following is a specification.

My invention pertains to improvements in gages, particularly for machinists' use.

It has for its object more especially to provide for gaging or testing the accuracy of the effective or forming edges or faces of thread-producing tools as well as that of the produced thread and to carry out these ends in a simple and effective manner.

Said invention consists of certain structural details substantially as hereinafter fully disclosed, and particularly pointed out by the claim.

In the accompanying drawings, illustrating the preferred embodiment of my invention, Figure 1 is a perspective view of said invention or gage. Fig. 2 is a transverse section thereof. Fig. 3 is a view of my gage in suspended position upon an improvised support—as, for instance, a lathe-center held between the chucks—and showing the practical application of the same for use in connection with thread forming or producing tools. Fig. 4 is a view showing the application of the gage to a produced screw-thread.

In the disclosure of my invention I form the same from hardened tool-steel, also ground and preferably magnetized, it consisting of a base 1, having formed or erected thereupon at the point of convergence or apex of its divergent or V portion, presently described, a number of peculiarly-shaped members 2, 3, and 4 of the cross-sectional dimension of what may be considered a plate, further described presently. Said base member 1 is produced, preferably, in practically inverted-V-shape form, which being, as above noted, magnetized and having its divergent longitudinal edges presented to a steel piece $1^{\times}$, suitably secured in place, serves to permit the ready suspension of the same in position for use, as noted especially in Fig 3. This construction of suspending-base provides for its application to the support regardless of whether the latter be cylindric or angular, as is apparent. The members 2 and 3, having a V-shaped notch 2^{a} produced therebetween, and the member 3, provided with a like notch 3^{a}, but considerably less depth than the aforesaid notch, are thus adapted or effective for testing the accuracy of the forming edges of what may be a lathe-center and a diamond-pointed tool for cutting a V-thread, as disclosed by Fig. 3. The outer edge of the member 2 being oblique or inclined and the opposite edge thereof reversely inclined and the inclinations thereof meeting, said member has therefore a tapering outline which, however, is only incidental, said outer inclined edge of said member serving as a gage for right-lined base-tools for truing centers, as also noted from the same figure.

Intermediately of the members 3 and 4 is provided a rectangular recess or notch 4^{a}, whose walls and base-surface form true planes, are effective for ascertaining the accuracy of the impinging edges of external square thread-forming tools and internal corresponding thread-forming tools, as will be observed also from Fig. 3.

The member 4 has penetrating its outer edges, one at right angles to the other, V-shaped notches 4^{b} 4^{bb}, adapted as gages for determining the effective qualities of external and internal V-shaped thread-cutting tools, as also seen in the latter figure.

As seen in Fig. 4, this device is also readily applied for gaging the produced screw-thread itself, both internal and external.

Latitude is allowed as to details herein, since they may be changed as circumstances suggest without departing from the spirit of my invention.

I claim—

A gage of the character described, comprising a V-shaped base portion effective for spanning a segment of a suitably-supported piece and for attachment thereto, and right-lined gage members integral with the apex of said V-shaped portion and in a line passing through the latter portion, equidistantly of the arms of said base portion.

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

HARRY W. STOWE.

Witnesses:

PETER F. WARD,

ANDREW COMURY.