March 12, 1940. J. B. FORE 2,193,400

FILE HOLDER

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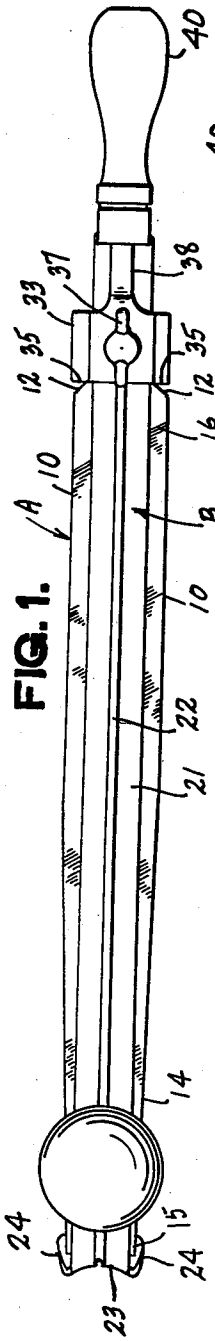


FIG. 1.

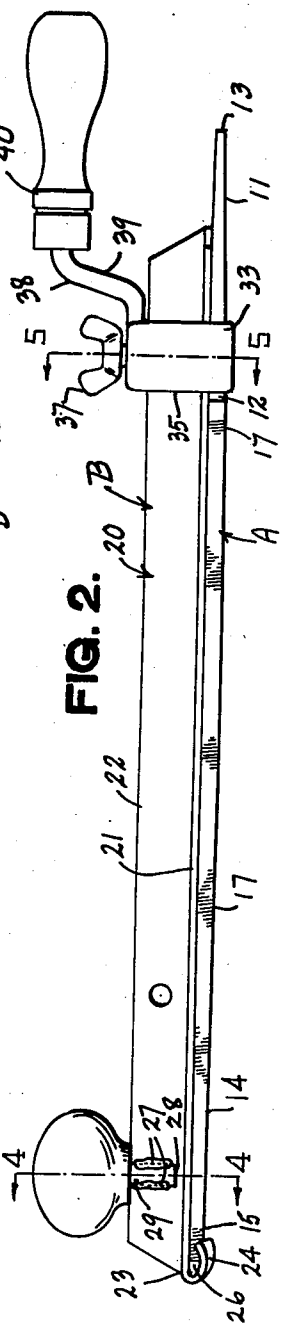


FIG. 2.

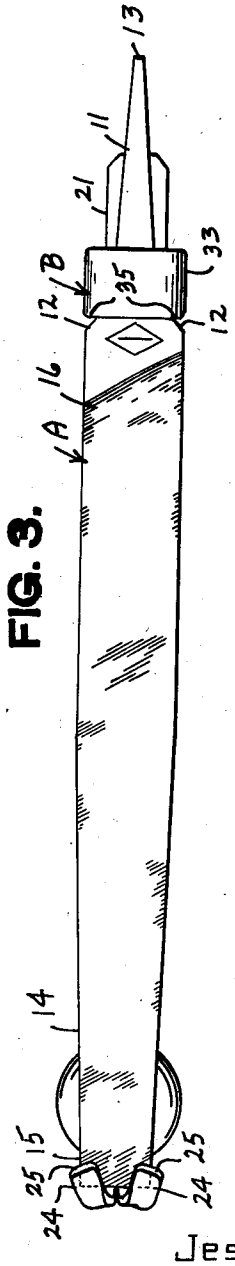


FIG. 3.

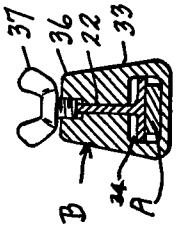


FIG. 5.

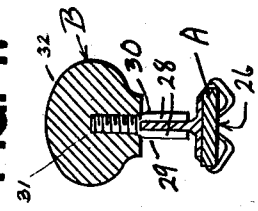


FIG. 4.

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FILE HOLDER

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2 Claims. (Cl. 29—80)

The present invention relates to improvements in holders for files and the primary object of the invention is to provide a holder which will facilitate use of the file.

Another object of the invention is to provide a holder which will hold a file rigidly so that, with pressure applied to both ends, the file will not bend. Without a rigid holder, the file ordinarily bends a little during use, and the teeth of the file are slightly cupped so that a firm hold on the material being filed is not obtainable. As a result, the file becomes slick and prematurely useless.

A further object of the invention is to provide a file holder having a reinforcing beam formed with an integral pocket construction for the accommodation of an end portion of the file.

A still further object is to provide a file holder which is adjustable to different sizes and lengths of files.

Yet another object of the invention resides in the provision of a file holder having improved means to securely clamp the file to the holder.

Other objects and advantages of the invention will become apparent during the course of the following detailed description, taken in connection with the accompanying drawing, forming a part of this specification and in which drawing—

Figures 1, 2 and 3 are views in top plan, side elevation and bottom plan, respectively, of the file holder and showing a file clamped thereto.

Figures 4 and 5 are vertical transverse sectional views substantially on the lines 4—4 and 5—5, respectively, of Figure 2.

In the drawing, which for the purpose of illustration shows only a preferred embodiment of the invention, and wherein similar reference characters denote corresponding parts throughout the views, A designates a file of conventional construction carried by the holder B.

As shown, the conventional form of file A is generally flat and includes an intermediate portion 10 of uniform width and thickness, a tang portion 11 of reduced width extending from one end of the intermediate portion and providing opposite shoulders 12, and convergent in width and thickness from the shoulders 12 to the tip end 13 of the tang. The forward end portion 14, extending from the opposite end of the intermediate portion 10 is also slightly convergent in width and thickness toward the front end 15 of the file. Suitable teeth 16—17 may be formed in the sides and edge walls, respectively, of the file.

Referring now to the file holder B, the same comprises an elongate T-beam 20, providing a flange 21 constituting a reinforcing backing for the file, and a rib 22 strengthening the flange 21 so as to prevent bending thereof. The width of the flange 21, although uniform, is less than the width of the file A, as shown in Figure 1. At its forward end portion 23 the flange 21 is split to provide a pair of tabs 24, which are bent beneath the flange 21 so as to diverge toward their free ends 25. These free ends 25 are oppositely twisted so as to form with the flange 21 a pocket 26 defined by walls disposed in isosceles triangular relation to one another and in circumscribing relation to the rectangular cross-sectional outline of the forward end portion 14 of the file, when the same is disposed in the pocket 26.

To the upright rib 22 is secured, in straddling relation, as by welding 27, the opposite halves 28 of the split lower end portion 29 of a stud 30, including an upwardly projecting threaded end 31, on which is mounted a spheroidal hand grip knob 32.

Slidably mounted for movement longitudinally of the T-beam 20 for co-action with the tang portion 11 of the file is a stock 33 provided with a T-shaped slot 34 which accommodates the beam and file. This stock includes opposite sides 35 adapted to engage the shoulders 12 of the file with the forward end of the file disposed in the pocket 26. At its reduced upper end 36, the stock is tapped to receive a winged set screw 37 which may be brought to bear against the rib 22, as shown in Figure 5. Extending rearwardly from the upper end 36 of the stock is an integral shank 38 including an upwardly offset portion 39 and carrying a rearwardly directed handle 40 of any suitable construction.

When the forward end 14 of the file is pressed into the pocket 26, it will fit snugly against the flat surface of the T-beam flange 21. The stock 33 is then moved forwardly along the beam to a position wherein the opposite sides of the stock engage the shoulders 12 of the file. By threading the winged set screw 37 into engagement with the rib 22, the tang portion 11 is drawn into close contact with the lower surface of the flange 21, and the file is thus securely positioned symmetrically of the flange with the teeth 17 of the opposite edges of the file exposed in a manner so as to not interfere with the use of these teeth. When the stock 33 is jammed against the shoulders 12, the file is prevented from slipping backward and becoming loose while filing.

Various changes may be made in the form of invention herein shown and described, without

departing from the spirit of the invention or the scope of the following claims.

I claim:

1. A file holder comprising an elongate beam including a strip-like flange providing a reinforcing backing for the file, said flange being longitudinally split at one end portion to provide a pair of tabs, said tabs being so bent beneath the flange as to diverge toward their free end portions, said free end portions being oppositely twisted so as to provide a pocket substantially triangular in cross-sectional outline and proportioned to circumscribe one end portion of the file, and a clamp disposed at the other end of the flange for fixing the opposite end portion of the file to the flange.

2. In a holder for a file having a reduced end portion providing shoulders at opposite sides of the file, an elongate beam including a strip-like flange providing a reinforcing backing for the file, said beam including an end portion forming a pocket for the accommodation of that end portion of the file opposite said reduced end portion, and a clamp longitudinally slidably adjustable relative to the opposite end portion of the beam, said clamp being adapted to act upon the reduced end portion of the file and including side members disposed at opposite sides of the beam, said side members being arranged to engage the shoulders of the reduced end portion of the file with the opposite end portion of the file disposed in said pocket.

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