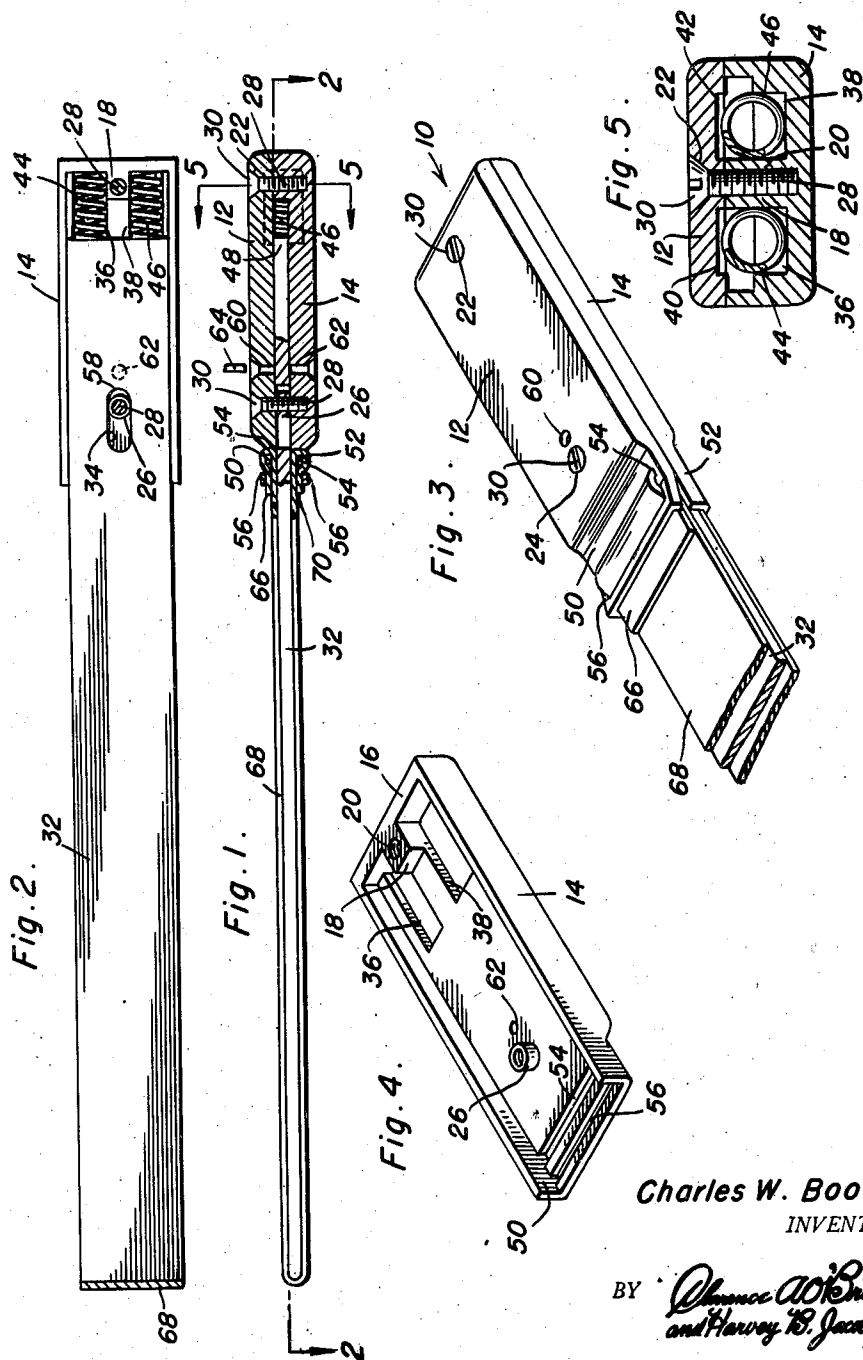


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ABRASIVE STRIP HOLDER
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ABRASIVE STRIP HOLDER

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4 Claims. (Cl. 51-187)

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This invention relates to new and useful improvements in files and the primary object of the present invention is to provide a novel and improved abrasive strip holder.

Another important object of the present invention is to provide an abrasive strip holder including a support applicable for frictionally engaging an abrasive strip and novel and improved support urging means for retaining the abrasive strip in a tight position on the support.

A further object of the present invention is to provide an abrasive strip holder that is extremely small and compact in structure and one that is so designed as to facilitate a strip of abrasive material to be quickly and readily applied thereto or removed therefrom in a convenient manner.

A still further aim of the present invention is to provide an abrasive strip holder that is simple and practical in construction, strong and reliable in use, neat and attractive in appearance, 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 drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a side elevational view of the abrasive strip holder constructed in accordance with the present invention, and with parts of the handle portion thereof broken away and shown in section;

Figure 2 is a longitudinal horizontal sectional view taken substantially on the plane of section-line 2-2 of Figure 1;

Figure 3 is a fragmentary perspective view of one end of the present abrasive strip-holder;

Figure 4 is a perspective view of the lower half of the handle portion used in conjunction with the present invention; and,

Figure 5 is an enlarged transverse vertical sectional view taken substantially on the plane of section line 5-5 of Figure 1.

Referring now to the drawings in detail, wherein for the purpose of illustration, there is disclosed a preferred embodiment of the present invention, the numeral 10 represents the handle portion of the present abrasive strip holder generally, comprising an upper half 12 and a lower half 14. These halves 12 and 14 are substantially channel shaped in form with their rear portions being provided with transverse ribs 16

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which are integrally formed with the respective halves. Rigidly secured to or forming an integral part of the rib 16 for the lower half 14, is a spacer lug 18 having an internally threaded opening 20 that opposes a countersunk aperture 22 provided in the upper half 12. There is provided a further countersunk aperture 24 in the upper half 12 that registers with an internally threaded guide sleeve 26 which is fixedly secured to the web portion of the lower half 14, adjustably mounted in the lug 18, and the sleeve 26, are fasteners 28 the head portions 30 of which frictionally engage the apertures 22 and 24.

Slidably positioned on the handle portion 10, is one end of an elongated substantially rectangular support 32 that is provided with a longitudinal guide slot 34 that frictionally engages the guide sleeve 26. Frictionally positioned in recesses 36 and 38 formed on the lower half and further recesses 40 and 42 provided in the upper half 12 that oppose recesses 36 and 38, is a pair of coil springs 44 and 46 which are biased between the ribs 16 and the inner edge 48 of the support 32 to normally urge the support in an extended position relative to the handle portion 10.

Preferably integrally formed with the forward open ends of the halves 12 and 14, is a pair of forwardly diverging channeled extensions 50 and 52 each of which are provided with a pair of transversely extending spaced openings or slots 54 and 56.

In practical use of the present invention, the support 32 is pushed into the handle until the innermost end 58 of the slot 34 opposes vertical openings 60 and 62 provided in the upper half 12 and the lower half 14, and a pin or the like 64 is extended through the openings 60 and 62 and slot 34 to retain the support 32 in a retracted position. One end 66 of an elongated strip of abrasive material 68 is then extended upwardly through the slot 54 then downwardly and forwardly through the slot 56 to lace the end 66 to the extension 50. The strip 68 embraces the support 32 and the free end 70 thereof is laced through the slots 54 and 56 of the extension 52. The pin 64 is removed from the handle portion 10 and the support 32 will be urged forwardly by the springs 44 and 46 to prevent any looseness or slack in the strip.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even

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though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims.

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

1. An abrasive strip holder comprising a substantially channel shaped handle, a support slidably carried by the handle, means for guiding and limiting the sliding movement of the support relative to the handle, recesses provided in the handle, spring means positioned in the recesses for urging the support in an extended position relative to the handle, a strip of abrasive material embracing the support, means for holding the ends of the strip to the handle, said support having a slot, and means detachably carried by said handle engaging said slot for holding the support in a retracted position.

2. The combination of claim 1 wherein said means for holding the ends of the strip to the handle includes a pair of slotted retaining members for interlacing engagement with the ends of the abrasive strip.

3. The combination of claim 1 wherein said means for holding the support in a retracted position includes an opening provided in said

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handle, a slot provided in said support registering with said opening when said support is disposed in a retracted position, and a removable pin received in said opening and said slot.

4. The combination of claim 1 wherein said means for guiding and limiting the sliding movement of said support relative to said handle includes a guide sleeve fixed to the web portion of said handle, said support having a longitudinal slot slidably receiving said sleeve.

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