June 13, 1967 P. MASCIA 3,324,548

TOOL-HOLDING KNIFE

Filed April 27, 1965 2 Sheets-Sheet 1

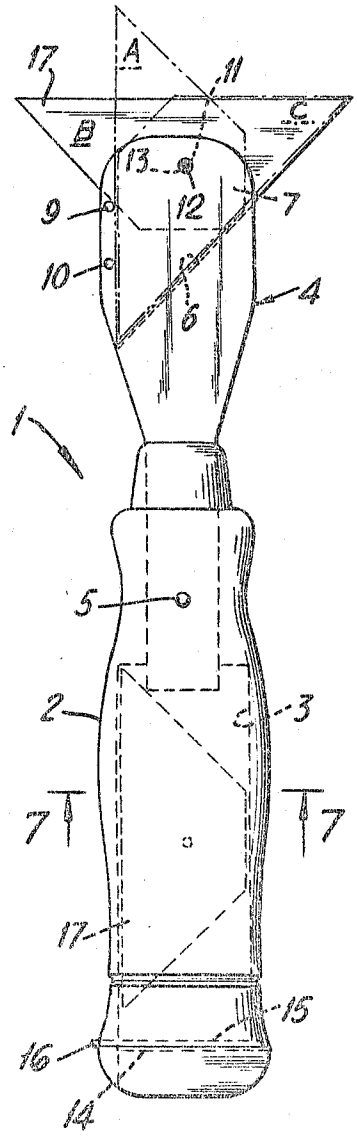


FIG. 1

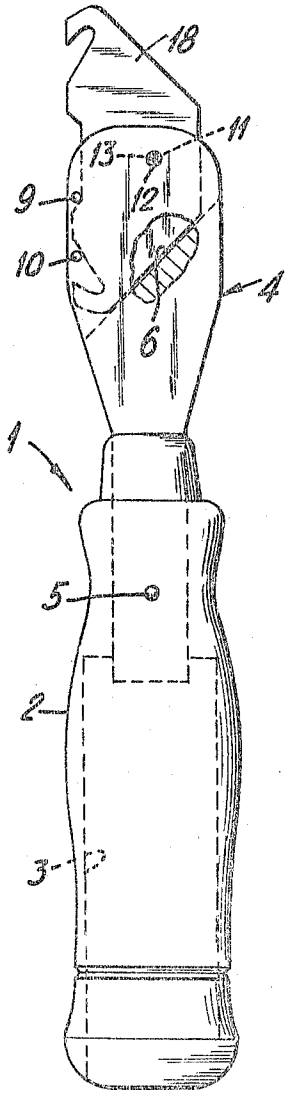


FIG. 2

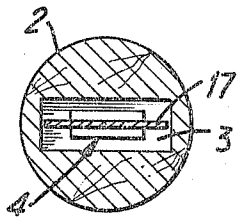


FIG. 7

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TOOL-HOLDING KNIFE

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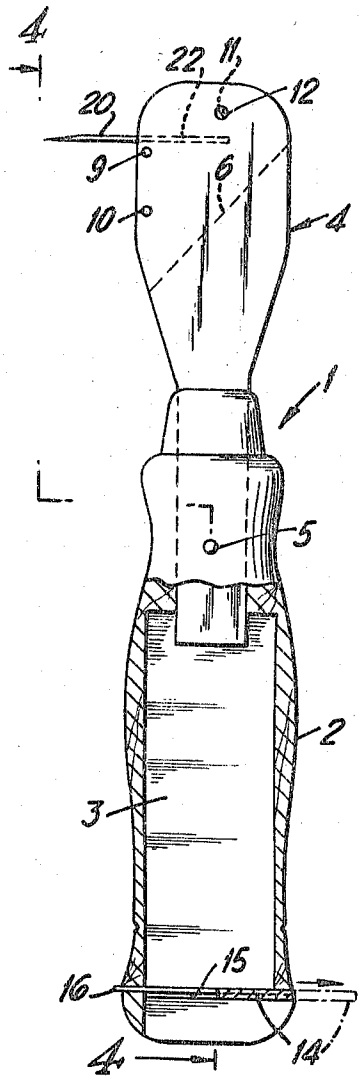


FIG. 3

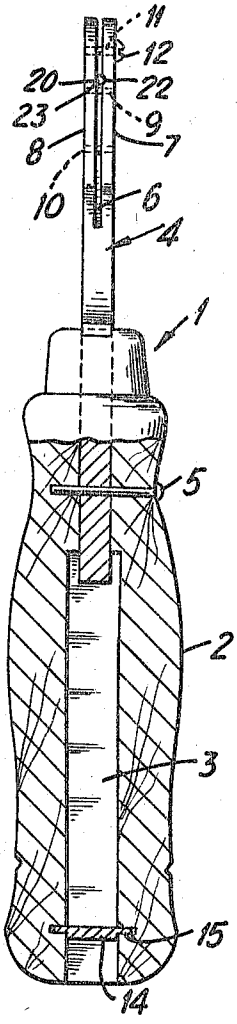


FIG. 4

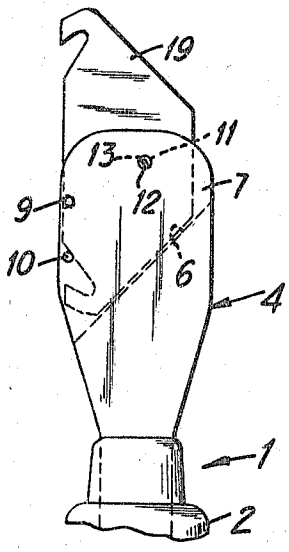


FIG. 5

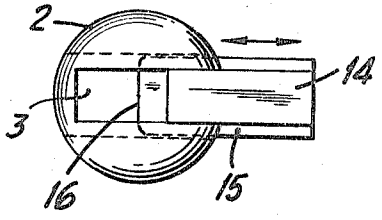


FIG. 6

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TOOL-HOLDING KNIFE

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2 Claims. (Cl. 30—125)

ABSTRACT OF THE DISCLOSURE

A knife and bifurcated tool holder wherein the knife is mountable in the tool holder between a pair of branches in the tool holder; the base between the two branches formed at approximately a 45° angle from the centerline of the holder and spacing devices between and along the longer edge of the branches adapted to firmly hold the branches and buttress in various predetermined positions various of the blades used with the tool holder. The holder preferably includes a hollow compartment to be used for storage of extra blades or other smaller tools.

The present invention relates to a new and improved tool holding knife, handle and blade combination especially adapted to the heavy cutting and work involved with work with linoleum, vinyl, carpeting and the like.

In the past conventional knives have been provided with fixed blades adapted to the angles of the work of heavy cutting or changeable or removable blades to take into account the wear of heavy cutting so that a knife is not quickly worn out and has to be discarded.

Various holders adapted to replaceable blades of the past have atempted to overcome these problems, especially with knives used for the heavy cutting of vinyl, linoleum or other heavy materials. Turnable blades, removeable blades and multisided blades have been provided.

According to the present invention a tool holder and knife with a handle is provided with a blade-holding portion adapted to various blades, tools and blade angles and the usage of heavy cutting. A knife and bifurcated tool holder is provided, the knife being mountable in the tool holder between a pair of branches in the tool holder. The base provided between the two branches is formed at approximately a 45 degree angle from the centerline of the holder and spacing devices between and along the longer edge of the branches are adapted to firmly hold the branches and buttress in various predetermined positions various of the blades used with the tool holder. The holder preferably includes a hollow compartment to be used for storage of extra blades or other smaller tools.

Although such novel feature or features believed to be characteristic of the invention are pointed out in the claims, the invention and the manner in which it may be carried out, may be further understood by reference to the description following and the accompanying drawings.

FIG. 1 is a front elevation of a tool-holding knife of the present invention.

FIG. 2 is a front elevation of a tool-holding knife of the present invention employing an alternate blade.

FIG. 3 is a front elevation of a tool-holding knife of the present invention partially cut away, adapted to a scriber and slide compartment handle.

FIG. 4 is a section of FIG. 3 at lines 4—4.

FIG. 5 is a blade holder of the present invention holding another type of blade.

FIG. 6 is a bottom view of the slide to the handle compartment of the tool-holding knife shown in FIGS. 3 and 4.

FIG. 7 is a section of FIG. 1 at lines 7—7.

Referring now to the figures in greater detail, where like refernce numbers denote like parts in the various figures.

The tool-holding knife 1 comprises a handle 2 including a compartment 3 and a tool holder 4 firmly set in the handle 2 as illustrated by the pin 5.

The tool holder 4 is bifurcated and provided with a base extending approximately a 45 degree angle from the center line of the holder 4. The branches 7, 8 of the bifurcated tool holder 4 are firmly held spaced apart by rivets 9, 10 which are adapted to hold the branches 7, 8 steady and also to buttress various of the blades useable with the tool-holding knife 1 of the present invention.

The upper portion of the tool holder is provided with an opening 11 passing through the branches 7, 8 and threaded in branch 8 so that a screw 12 may pass through the branches 7, 8 and an opening 13 in a blade to be held for use.

The handle 2 is adapted to mount the tool holder 4, serve its function as a handle 2 and also have storage space in a compartment 3 within the handle 2 as shown in FIGS. 1, 2, 3, 4, 6 and 7.

Access to the compartment 3 may be obtained through a slider 14 set in a channel 15 in the base of the handle 2. For convenience, the slider 14 may extend through the base of the handle and leave a protruding lip 16 which may be pressed to extend a grip portion of the slider 14 for opening access to the compartment 3.

Various articles such as blades 17, 18, 19 and a scriber point 20, for instance, may be stored in the compartment 3 as shown in FIGS. 1 and 7.

The blade 17 as illustrated in FIG. 1 is trapezoidal in shape and may be advantageously used as a straight knife as shown in position A, as a scraper as shown in position B or as a linoleum knife or angulated blade knife as shown in position C.

While blades of the past have had interchangeable features, the trapezoidal blade 17 in combination with the handle 2 may get extra utility as a knife in position A, having two useable points availbale for use by reversing the blade 17 in the holder, double use by having a scraper side on either side of position B or having two points of blades available in position C.

In each position the blade is steadied by resting on the base 6 and against the rivets 9, 10. An opening 21 in the blade 17, substantially at its epicenter, permits the screw 12 to pass through the blade for tight holding and is spaced so that in all positions the blade 17 is supported in all directions.

Various other blades and blade usages are available, each adapted to the support of the rivets 9, 10, the base and the screw 12.

As shown in FIG. 2, the blade 18 is fully supported and available for use, and double use, by way of reversal in the tool holder 4.

In FIG. 5 a different blade 19 configuration similar to the blade 17 is adapted to be used.

In connection with the type of work a knife 1 of the present invention might be applied to, a scriber 20 is often a necessity or at least a convenience. By providing the branches 7, 8 with insets 22, 23 or indentations adapted to accept the scriber 20 at its periphery and by tightening screw 12, the knife 1 may serve as a scribing tool also.

In use, a desired blade or scriber is removed from the compartment 3 and set for use in the holder 4 after closing the slider 14 to the compartment 3. The tool selected may be left in position for use or may be put away after use.

Blades themselves, such as blade 17, may have extended life by using the techniques of reversing for points and cutting edges and the knife 1 itself does not have the difficulty to sharpen that knives of the past have had or need to discard after limited use and tools themselves are kept available and sharp at all times for various uses, especially in heavy cutting such as with carpets or vinyl.

The terms and expressions which are employed are used as terms of description; it is recognized, though, that various modifications are possible within the scope of the invention claimed.

Having thus described certain forms of the invention in some detail, what is claimed is:

1. A knife including a bifurcated tool holder comprising one end adapted to be mounted in a handle; a pair of branches; a base between said branches; said base at approximately a 45 degree angle from the centerline of said holder; means fixedly spacing said branches; said spacing means at the longer edge of said branches and means approximately at the centerline of said holder at its end adapted to tighten a tool in said holder and a handle adapted to receive a tool holder including a hollow compartment inside its body, a channel at one end of said handle, and slide means in said channel adapted to control access to said compartment.

2. The knife of claim 1 including a removable blade of a generally trapezoidal configuration including an opening therethrough at its epicenter.

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