

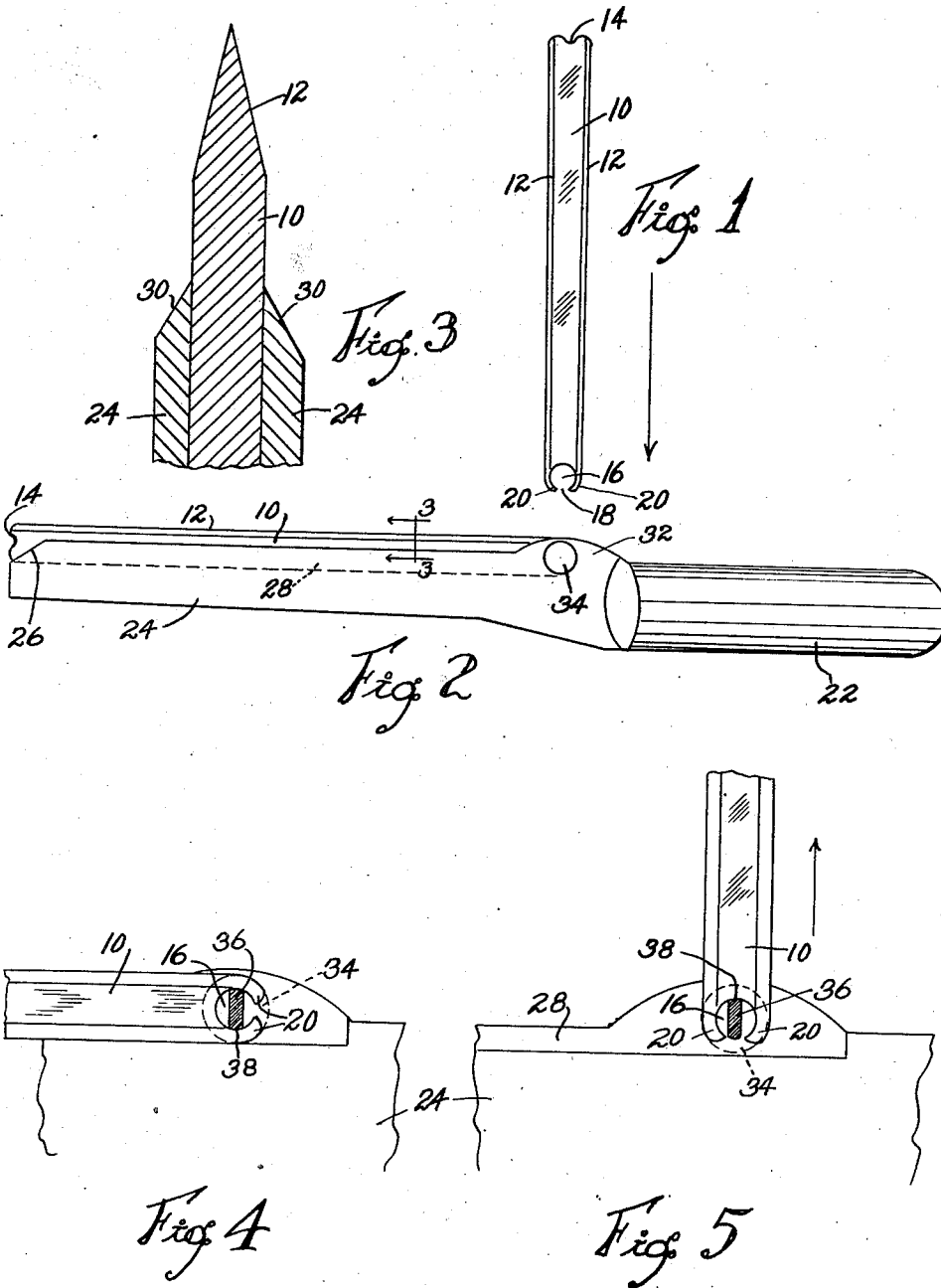
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KNIFE HAVING REPLACEABLE BLADES

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# UNITED STATES PATENT OFFICE

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## KNIFE HAVING REPLACEABLE BLADES

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2 Claims. (Cl. 30—329)

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This invention relates to knives having replaceable blades, the knife structure relating more particularly to bread and cheese knives and the like, although the invention is useful in any relation where a knife of this type may be used.

The principal object of the invention is in the provision of a knife holder comprising a handle and a connected or integral knife blade backing-up support comprising an elongated member having a longitudinal slot in an edge thereof, which slot receives the knife blade and holds the same in combination with a mechanical latch at one end of the blade, to the end that a very inexpensive, thin, sharp, double-edge blade may be used and replaced when dull by a new blade somewhat as in the manner of a safety razor in which the blades are not usually resharpened but are thrown away and new blades inserted.

A further object of the invention resides in a new and improved connector, latch, or locking means for one end only of the blade, such that the blade may be inserted and removed from the holder at a particular angle thereto only and the blade having been moved from such angular relation into the slot above mentioned will be securely held and cannot accidentally fall from the holder.

Other objects and advantages of the invention will appear hereinafter.

Reference is to be had to the accompanying drawings in which

Fig. 1 is a view in elevation of the blade;

Fig. 2 is a view in elevation of the blade in the knife holder;

Fig. 3 is a greatly enlarged section on line 3—3 of Fig. 2;

Fig. 4 is an enlarged section through the blade holder showing the blade connecting means in the locked position of the blade; and

Fig. 5 is a view similar to Fig. 4 but showing the blade in position for removal and insertion thereof.

As shown in Fig. 1, the new blade consists of a very thin elongated steel member 10 which may be sharpened at both edges 12. This blade is very flexible and it is preferred that the thickness should be about fifteen thousandths of an inch. A blade of this thickness does not actually have to be ground but may be sharpened on a steel. However, it is contemplated that these blades will be sold with sharpened edges ready for use.

At one end of the blade as indicated at 14 there is provided a depression for the purpose of easy removal and insertion of the blade as will be explained below and at the opposite end of the blade there is provided a reentrant opening which

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is circular in form as indicated at 16. The opening 16 has a reduced neck leading thereto as at 18 formed by a pair of curved horns 20.

Referring now to Fig. 2, the knife holder itself comprises a handle of any conventional shape 22 having secured to or integral therewith a substantially flat thin portion 24 extending forwardly thereof and terminating in a bevel edge 26. At the edge of the flat thin portion 24 on which is the bevel 26 there is provided a relatively deep narrow slot 28 for the purpose of receiving and holding the blade 10. By this means the flexible blade 10 is backed up and held rigid and the side edges of the portion 24 adjacent the slot are beveled off as shown at 30 in Fig. 3 so that as the edge 12 is used to cut, the portion of the material cut off will be separated from the main body of the material by the blade holder 24 in a smooth manner due to the bevels 30, and for this reason the present knife is particularly adapted to bread and cheese cutting. It will be observed that when one sharp edge 12 has become dulled the blade may be reversed and the other edge 12 used until it too is dull, whereupon the blade may be thrown away and a new one inserted.

At the end of the blade holder 24 adjacent the handle 22, there is provided a raised portion 32 for the purpose of receiving a pin extending across the slot 28 and having a head 34 at each side of the portion 24 to hold the pin in position. The pin itself assumes the shape shown in Figs. 4 and 5 as indicated at 36 and this shape is a narrow elongated one having rounded edges 38.

The knife being in the position shown in Fig. 1 with relation to the knife holder of Fig. 2, is merely moved toward the same in the direction of the arrow in Fig. 1, whereupon it becomes hooked over the pin 36 as shown in Fig. 5. Then the blade is rotated in a counterclockwise direction until it assumes the position shown in Fig. 2, the slot 28 in the blade holder 24 being of a size to grip the side surfaces of the blade 10. The locking device is then in this position as shown in Fig. 4 and it will be seen that the blade 10 cannot be removed from the knife holder without turning it back to the position of Fig. 5 and removing it by pulling in the direction of the arrow in Fig. 5.

This invention provides an inexpensive knife holder, in combination with the removable inexpensive knife blades which may be used until dull and then thrown away so that the user of the knife is always supplied with a sharp blade at a very inexpensive price since the blades themselves may be made of flat wire stock inexpen-

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sively as is the case with razor blades. At the same time, there is no holder for the blade except for the knife holder itself and the blade may be removed and put away so that there will be no accidents in handling the knife with the blade removed. It is also pointed out that the thin portion of the knife blade holder 24 maintains the blade in position for cutting and stiffens the blade, which is too flexible for ordinary use by itself.

The invention is also applicable to blades which are curved like a scimitar blade, or butcher's knives, although such blades would have but a single sharp edge. In all other respects, however, the invention is the same for such curved blades.

Having thus described my invention and the advantages thereof, I do not wish to be limited to the details herein disclosed otherwise than as set forth in the claims, but what I claim is:

1. A knife having removable and replaceable blades comprising a blade holder of thin elongated form, a handle thereon, the holder having a slot along a narrow edge thereof, a flat pin on the holder and traversing the slot, and a thin flexible blade having a substantially circular opening at one end, said opening having a neck just receivable on the pin in edgewise condition relative thereto, the blade being pivotable on the pin down into the slot and the slot having a width to frictionally grip and hold the blade.

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2. A knife having removable and replaceable blades comprising a blade holder of thin elongated form, a handle thereon, the holder having a slot along a narrow edge thereof, a flat pin on the holder and traversing the slot, and a thin flexible blade having a substantially circular opening at one end, said opening having a neck just receivable on the pin in edgewise condition relative thereto, the blade being pivotable on the pin down into the slot and thereupon being held against removal, said holder having beveled edges at the slot, and the slot being of less depth than the width of the blade, the slot being of a width to just receive the blade and frictionally grip the same at the side surfaces thereof.

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