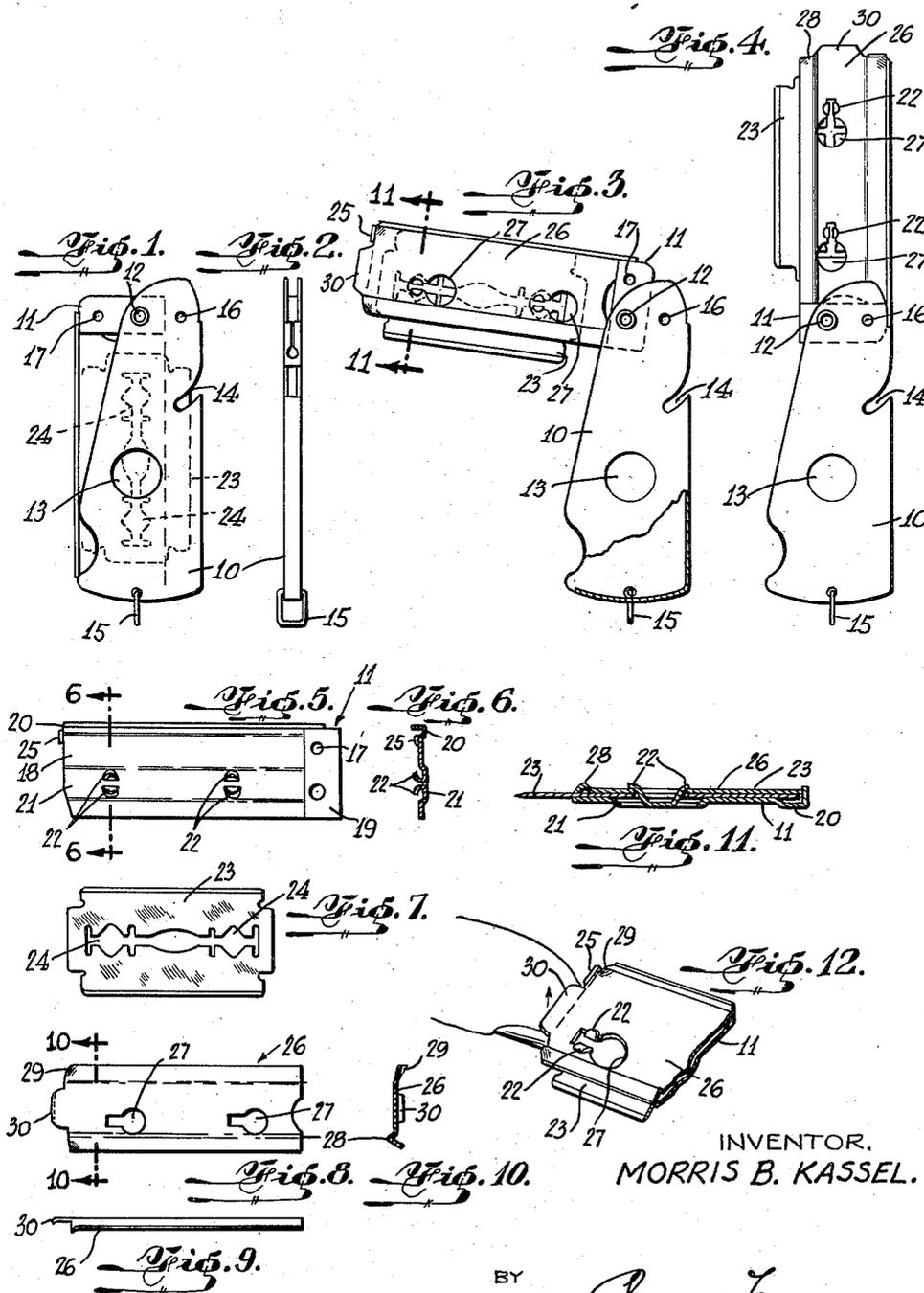


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M. B. KASSEL
CUTTING DEVICE

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CUTTING DEVICE

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My present invention relates to a cutting device in which the cutting element is a safety razor blade and constitutes an improvement upon the cutting device described and claimed in my Patent No. 1,782,901.

While the construction of my prior patent has proved to be eminently satisfactory, I have discovered that, by making certain structural alterations, a superior cutting device having new features and advantages can be produced. For example, the handle portion of the cutting device of my aforesaid patent was not shaped to fit the hand of the user and hence the cutter could not be effectively employed as a scraper. The blade holder and clamp plate members had a tendency to flex or bend sometimes during use due to the fact that such members were relatively long and narrow with respect to their thickness. In my prior cutter, there was a tendency for the razor blade to become disassociated from the holder under some conditions, and these and other features have been overcome by the present invention.

An object of the present invention is to produce a novel and superior razor blade cutting device having the above and other advantages over my aforesaid patented cutting device.

Another object of the invention is to provide a cutter with a handle portion shaped to the user's hand and capable of being used as a scraper.

A further object of the invention includes the re-designing of the blade holder and clamp plate to overcome any tendency to distort or bend out of shape.

A still further object of the invention is to provide the clamp plate with a finger piece and locking member to prevent the blade from becoming disassociated with the holder.

Other and still further objects and advantages will be understood by those skilled in this art or will be apparent or pointed out hereinafter.

In the accompanying drawing:

Fig. 1 is a plan view of my new razor blade knife in folded condition.

Fig. 2 is an edge view of Fig. 1 at 90° thereto.

Fig. 3 is a view of the knife of Fig. 1 in partly opened condition and partly in section.

Fig. 4 is a view of the knife of Fig. 1 in fully opened condition.

Fig. 5 is a plan view of the blade holder.

Fig. 6 is a transverse sectional view taken along line 6—6 of Fig. 5.

Fig. 7 illustrates one form of razor blade adapted for use in my new knife.

Fig. 8 is a plan view of the clamp plate.

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Fig. 9 is a longitudinal edge view thereof.

Fig. 10 is a transverse sectional view taken along line 10—10 of Fig. 8.

Fig. 11 is an enlarged transverse sectional view taken along line 11—11 of Fig. 3.

Fig. 12 is a fragmentary perspective view of the distal end portion of the blade holder, blade and clamp plate.

The handle portion of the new razor blade knife is designated by the numeral 10. This is formed of folded over sheet metal and tapers toward one end, the narrower end being pivoted near one side to the blade holder 11 by means of a rivet or the like 12. Fig. 1 best shows the taper of handle portion 10 and this enables the knife to be employed as a scraper without the fingers of the user preventing close work. In other words, this taper results in forming a space which accommodates the user's fingers.

Handle portion 10 is provided with a centrally disposed aperture 13 which serves as a cigar-cutter and with an arcuate, deep slot 14 which serves as a cord cutter. The distal end may be provided with a pivotally mounted connector 15 by means of which the knife can be attached to a chain, band, strap, cord, etc. Adjacent rivet 12 and somewhat laterally spaced therefrom is a sunken spot 16 providing an element which snaps into depression or hole 17 in holder 11 to maintain the handle and holder portions in aligned positions, as clearly illustrated in Fig. 4.

The blade holder construction includes a sheet metal rectangular backing element 18 having the block-like spacer member 19 secured thereto, to which handle portion 10 is pivoted, as already described. Sheet metal element 18 is provided with a plurality of ribs 20 and 21. Angular prongs 22 are struck up out of the metal forming the rib 21. The ribs not only increase the rigidity and strength of the backing element but provide a space for the angular prongs which, therefore, extend little, if any, above the floor of the backing element. The razor blade 23 constitutes the cutting element of the knife and, as usually fabricated, has a plurality of cut-out portions 24 adapted to receive angular grippers 22. An up-standing lug 25 rises slightly from one corner of element 18, as shown, the purpose of which will appear hereinafter.

The clamp plate 26 has its central portion provided with keyhole slots 27 in which the angular prongs 22 are receivable. Clamp plate 26 has one or more longitudinal ribs 28 formed therein for strengthening purposes and to prevent undue flexing. One corner of the plate has

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a downturned projection 29 and the outer end has a fingerpiece 30. When plate 26 is put in place with prongs 22 extending through the larger portions of keyhole slots 27 and is then slid toward block 19 of the blade holder, projection 29 snaps in over lug 25 and locks the assembly together so that normal longitudinal forces on clamp plate 26 during opening, closing and use of the knife do not cause disassembly. The finger piece 30 enables enough lifting force to be conveniently applied to disassemble the parts when the blade 23 is to be changed or removed. As plate 26 is slid toward block 19, the angular prongs 22 move into the smaller portions of the keyhole slots to the ultimate positions shown in Fig. 12, in which the prongs also aid in locking the various members in operative position.

A cutting device made in accordance with my present invention consequently overcomes the disadvantages of my prior patented device and provides a knife having a number of unique advantages not shared by the prior knife. It is, however, to be understood that the foregoing is intended as exemplary and not limitative since various changes therein may be made without departing from the spirit or scope thereof.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. A holder portion for a razor blade knife comprising a longitudinally ribbed sheet metal backing member and a longitudinally ribbed clamp plate adapted to hold a razor blade on said backing member, said backing member having prongs struck up out of the metal of one such rib and said clamp plate having keyhole slots in which said prongs are slidably receivable, a locking means including a lug on said backing member over which the clamp plate slides and a

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coacting downturned portion on said clamp plate for engagement against said lug when the clamp plate is slid home and a terminal finger grip on said clamp plate.

2. A holder portion for a razor blade knife comprising a longitudinally ribbed sheet metal backing member having a lug rising from one corner thereof and pairs of prongs struck up from the metal of one of said ribs and spaced therealong, the ends of each pair of prongs being oppositely bent to substantial parallelism with the plane of the backing member to constitute clamping heads for a clamp plate, a longitudinally ribbed clamp plate between which and the backing member a razor blade may be removably secured, a downturned corner on such clamp plate for cooperation with the lug on the backing member to lock the clamp plate and backing member against relative longitudinal displacement, and a terminal finger piece extending from said clamp plate, said clamp plate being also provided with a plurality of longitudinally spaced keyhole slots through which the bent prongs of the backing member are receivable.

MORRIS B. KASSEL.

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