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2,754,584

RAZOR BLADE SCRAPER

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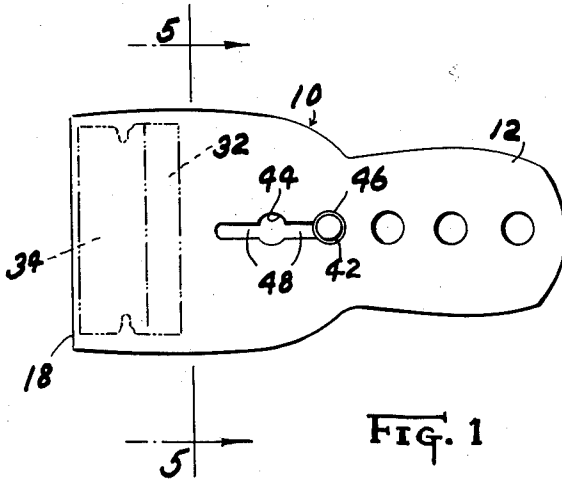


FIG. 1

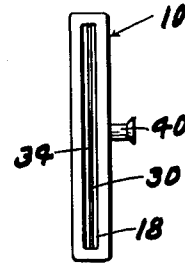


FIG. 3

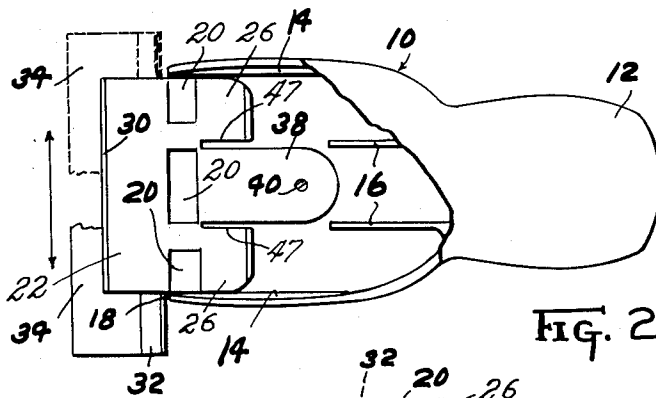


FIG. 2

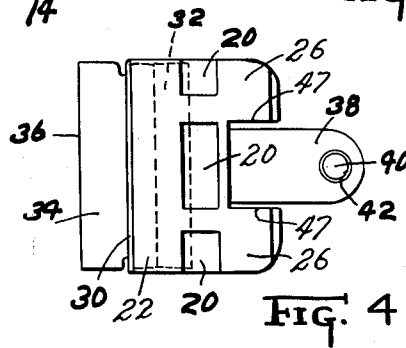


FIG. 4

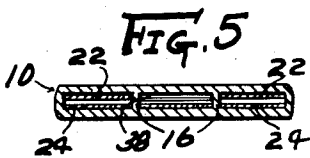


FIG. 5

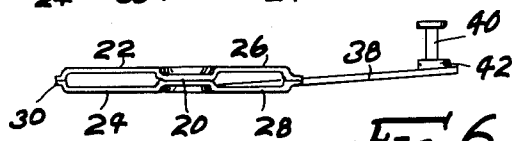


FIG. 6

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RAZOR BLADE SCRAPER

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2 Claims. (Cl. 30—162)

This invention relates to a new and improved razor blade scraper which is safe to use, having positive means holding the blade retracted within a housing or extended for operation, the device including a blade holder which holds a single edge razor blade selectively either with the sharp edge outwardly located for operation, or located within the holder in safe condition.

Other objects of the invention include the provision of a razor blade scraper as above described including an extremely light-weight and inexpensive molded housing having a handle at one end and an open end opposite thereto and including within the housing a pair of spaced parallel guides which are molded integrally with the housing and are spaced from the edge walls of the housing, the latter also acting as guide walls with relation to the razor blade holder above referred to; said razor blade holder having a resilient member for locking a head on a finger-piece selectively in either one of a pair of apertures in the housing, so that the blade holder may be extended and held or retracted, and said blade holder having means for engaging with said guide walls and guides above described for guiding the same and holding the blade and holder steady and fixed during operation of the device.

The invention further relates to arrangements and combinations of parts which will be hereinafter described and more particularly pointed out in the appended claims.

Reference is to be had to the accompanying drawings, in which:

Fig. 1 is a plan view showing the razor blade in broken lines in housed condition;

Fig. 2 is a view at the opposite side of the device, showing the blade holder fully extended, parts being broken away;

Fig. 3 is a front edge view of the device;

Fig. 4 is a plan view of the razor blade and holder;

Fig. 5 is a section on line 5—5 of Fig. 1; and

Fig. 6 is an enlarged view in side elevation of the razor blade holder.

This invention has for its principal object the provision of a light-weight extremely safe, inexpensive razor blade scraper which is easily manipulated to place the blade in housed condition where it cannot accidentally cut, or selectively in extended condition for operation. To this end, there is provided a molded plastic housing generally indicated at 10, said housing having a handle 12 which may be solid or apertured as in Fig. 1 for lightness of weight. The housing is flat and hollow forwardly of the handle, i. e. to the left in the drawings as shown in Fig. 2, and the side edge walls thereof as at 14 provide a pair of spaced guides. Centrally located within the housing are integrally molded transversely spaced, rib-like guides 16 which are spaced from the edge guide walls 14 and which terminate well short of the open edge 18 of the housing. The edge guide walls 14 extend to the open edge 18.

The blade holder itself comprises a pair of thin metal plates which are depressed generally centrally thereof at 20 to contact each other and they are secured together

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at these points as for instance by welding. At either edge, the two plates are spaced, see particularly Fig. 6, and form in general the parts indicated by the reference numerals 22, 24, 26 and 28. These parts are secured together at 20 but are free at the edges and may be opened up between the forward lips 30. These lips press upon each other and form a resilient gripping means for the razor blade.

The elements 22, 24 form a holding element for the rear edge 32 of a single edge razor blade 34 having a sharp edge as at 36, and the rear edge 32 may be slid endwise into and out of the member portion formed by the members 22 and 24 at either end thereof. The blade 34 then extends out between the lips 30 and is resiliently clamped thereby.

When the razor blade is removed from this holder at either end, it may be reversed and slid in with the rear edge 32 extending outwardly and the sharp edge safely housed between the members 22 and 24, the lips 30 clamping and holding the blade in this position.

At the rear portion of the blade holder, there is an extended resilient tongue or member 38 having at its end a finger-piece 40, the latter having a large head 42. This resilient member 38 bears upon the top wall of the housing so as to tend to hold the blade holder resiliently where located. However, the head 42 which is locatable in either of the apertures 44 or 46, see Fig. 1, locks the blade holder in either fully housed position or partially extended condition for use of the razor blade, and this locking action is accomplished by the tongue 38 urging head 42 outwards. Member 38 is attached to the blade holder generally centrally and the members 26 and 28 are cut away to form slots 47 at either side of member 38 to slidably receive the guide walls 16.

Passage or slot 48 connects apertures 44 and 46 and extends forwardly toward the open end of the housing from aperture 44. The member 40 may be slid to the extreme left-end of this passage, so that it is then in the position indicated in Fig. 2, wherein the blade may be slid out laterally at either end thereof for changing the blade or for reversing it.

It will be seen that this invention provides an inexpensive but safe razor blade scraper which is easily manipulated to house the blade completely or to expose the sharp edge thereof for scraping operations, or to completely expose the blade for removal and reversal in the holder for additional safety in shipping or storing the scraper when it is not being used.

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 razor blade scraper comprising a substantially flat housing open at one end thereof and including top and bottom walls, a pair of side edge walls, a handle at the other end of the housing, and a pair of transversely spaced rib-like guides extending in spaced parallel relation to said side edge walls in said housing from said handle to a point spaced inwardly from the open end of the housing, the top wall of the housing being provided with a longitudinally extending slot and with recesses spaced longitudinally of said slot, a substantially flat razor blade holder slidably fitting the open end portion of the housing and projectable and retractable through said open end, said blade holder having inner and outer portions, a razor blade removably positioned in the outer portion of said holder, a substantially flat resiliently depressible tongue provided on the inner portion of the holder, said tongue slidably fitting between and engaging said guides, the inner portion of the holder being provided with a pair of slot-like guideways at opposite sides of said tongue, said guideways receiving and slidably

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fitting said guides when the blade holder is retracted, a finger-piece provided on said tongue and projecting upwardly through said slot in the top wall of the housing, and detent means provided at the base of said finger-piece and engageable selectively with the recesses in 5 said slot.

2. The device as defined in claim 1 wherein said blade holder includes upper and lower wall members provided with offset contacting portions intermediate said inner and outer portions of the holder, said contacting inter- 10 mediate portions being rigidly secured together, and said

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wall members having resiliently yieldable outer edges frictionally gripping said razor blade therebetween.

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