

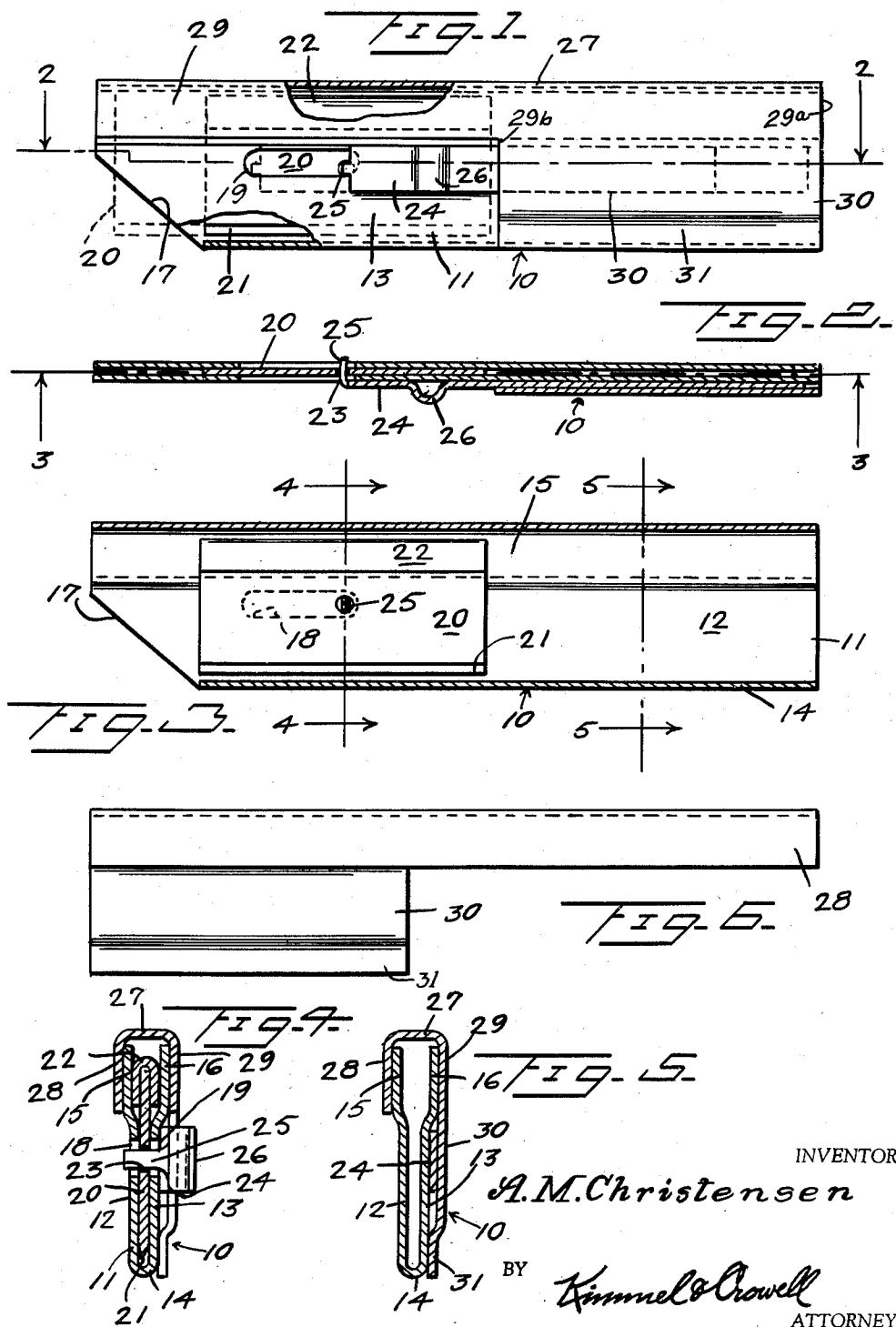
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RAZOR BLADE CUTTER

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RAZOR BLADE CUTTER

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2 Claims. (Cl. 30-162)

The present invention relates to razor blade cutters, and more particularly to a handle for converting a single edge razor blade into a cutter of the carton opening type.

The primary object of the invention is to provide a holder for razor blades into which the blade can be moved to guard the cutting edge thereof when the blade is not in use.

Another object of the invention is to provide a razor blade holder in which the handle portion thereof extends longitudinally of the blade to permit the handling of the razor blade in the same general manner as an ordinary knife.

A still further object of the invention is to provide a razor blade cutter in which means are provided thereon for moving the cutter into a protected position within the handle.

Another object of the invention is to provide a razor blade cutter of the class described above which is inexpensive to manufacture, simple to use, and durable in service.

Other objects and advantages will become apparent in the following specification when considered in the light of the attached drawings, in which:

Figure 1 is a side elevation of the invention shown partly broken away for convenience of illustration.

Figure 2 is a longitudinal cross-section taken along the line 2-2 of Figure 1, looking in the direction of the arrows.

Figure 3 is a vertical cross-section taken along the line 3-3 of Figure 2, looking in the direction of the arrows.

Figure 4 is an enlarged transverse cross-section taken along the line 4-4 of Figure 3, looking in the direction of the arrows.

Figure 5 is an enlarged transverse cross-section taken along the line 5-5 of Figure 3, looking in the direction of the arrows.

Figure 6 is a side elevation of the cover member removed from the remainder of the device.

Referring now to the drawings in detail wherein like reference characters indicate like parts throughout the several figures, the reference numeral 10 indicates generally a razor blade cutter constructed according to the teachings of the present invention.

The razor blade cutter 10 comprises an elongated generally U-shaped body member 11 having spaced parallel side walls 12 and 13 integrally joined at 14, as best seen in Figures 4 and 5. The walls 12 and 13 are each provided with outwardly offset upper end portions 15 and 16 which are spaced apart a distance substantially greater than the space between the side walls 12 and 13. The offset portions 15 and 16 are parallel to each other. The U-shaped body 11 has one lower corner thereof truncated at 17 for reasons to be assigned.

A slot 18 extends through the wall 12 in parallel relation to the bottom edge 14 thereof and extends longi-

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tudinally of the wall 12. A slot 19 extends through the wall 13 in aligned relation to the slot 18, as best seen in Figure 4. A razor blade 20 is adapted to be positioned between the walls 12 and 13 with the cutting edge 21 thereof extending toward the bottom edge 14 of the U-shaped body 11.

The reinforced edge 22 of the razor blade 20 is positioned between the offset portions 15 and 16 of the walls 12 and 13, respectively, as shown in Figure 4. The razor blade 20 is provided with a bore 23 which in some instances may take the shape of a vertical slot, and the bore 23 is positioned so as to be aligned with the slots 18 and 19, respectively.

An elongated arm 24 is positioned in contact with the outer surface of the wall 13 in underlying relation with the offset portion 16 thereof. The arm 24 is provided with a reduced end portion 25 extending perpendicularly thereto through the bore 23 and the slots 18 and 19, as best seen in Figure 4. An upwardly offset detent 26 is formed in the arm 24 to provide a finger engaging grip to slide the arm 24 and the blade 20 with relation to the body 11.

An inverted U-shaped cover 27 is provided with a pair of parallel spaced apart short side walls 28 and 29 which engage over the outer faces of the offset portions 15 and 16, as seen in Figures 4 and 5, to assist in securing these portions in position.

The short wall 29 from one end 29a thereof to a point 29b intermediate its ends is provided with a substantially elongated integral portion 30 depending therefrom. The elongated portion 30 has at its lower end an inwardly offset portion 31 in contact with and secured to the wall 13 adjacent the lower end 14 thereof. The cover member 27, by means of the elongated portion 30 of the wall 29, engages over the arm 24 and secures it in sliding relation to the side wall 13 of the U-shaped body 11.

In the use and operation of the invention, the razor blade 20 is positioned between the side walls 12 and 13 of the U-shaped body 11 and is moved by means of the arm 24 from a position as shown in dotted lines in Figure 1 to the full line position illustrated in Figure 3. Obviously the dotted line position shown in Figure 1 permits a corner of the razor blade 20 and a portion of the cutting edge 21 thereof to protrude from the U-shaped body 11 so that it may be used for opening cartons, cutting strings, and other cutting operations.

By use of the arm 24, the razor blade 20 can be moved inwardly of the U-shaped body 11 until the cutting edge 21 is completely protected by the lower edge 14 of the U-shaped body 11. In this position, the razor blade cutter 10 can be carried in the pocket without endangering the user.

While the arm 24 has been illustrated as having its major portion flat, it is possible to adjust the tension on the arm 24 to vary the ease of movement of the arm 24 by bending an end portion of the arm 24 opposite the end portion 25 slightly out of a flat plane. Obviously the greater the bend in the arm 24 the more tension.

Having thus described the preferred embodiment of the invention, it should be understood that numerous structural modifications and adaptations may be resorted to without departing from the scope of the appended claims.

What is claimed is:

1. A razor blade knife comprising an elongated U-shaped body having spaced parallel walls integrally joined at their lower ends, each of said walls having outwardly offset upper end portions with said end portions parallel and spaced apart substantially more than said walls, said body having one lower corner thereof truncated, said

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walls having aligned longitudinally extending slots formed therein adjacent the truncated end of said body, a single edge razor blade having a reinforcing back secured to one edge thereof, said blade having a central bore formed therein, said blade having the back thereof slidably mounted between said outwardly offset end portions and said blade depending therefrom between said walls, said bore in said blade being aligned with said slots, an inverted U-shaped cover engaged over said upper end portions, a depending elongated portion integrally formed on said cover on the end thereof opposite said slots and extending in spaced parallel relation to one of said walls, said elongated portion having the lower edge thereof inwardly offset and secured to said one of said walls, an arm slidably engaged between one of said walls and said elongated portion, a reduced offset end portion integrally formed on said arm extending through said slots

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and said bore whereby upon sliding movement of said arm said razor blade is moved into and out of operating position, and integral means on said arm providing a handle for moving said arm.

2. A device as claimed in claim 1 wherein said means on said arm providing a handle comprises an outwardly offset portion of said arm adjacent said reduced offset portion.

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