F. H. HASKELL.

SAFETY TWINE CUTTER.

APPLICATION FILED JUNE 26, 1909.

939,129. Patented Nov. 2, 1909.

Fig. 1.

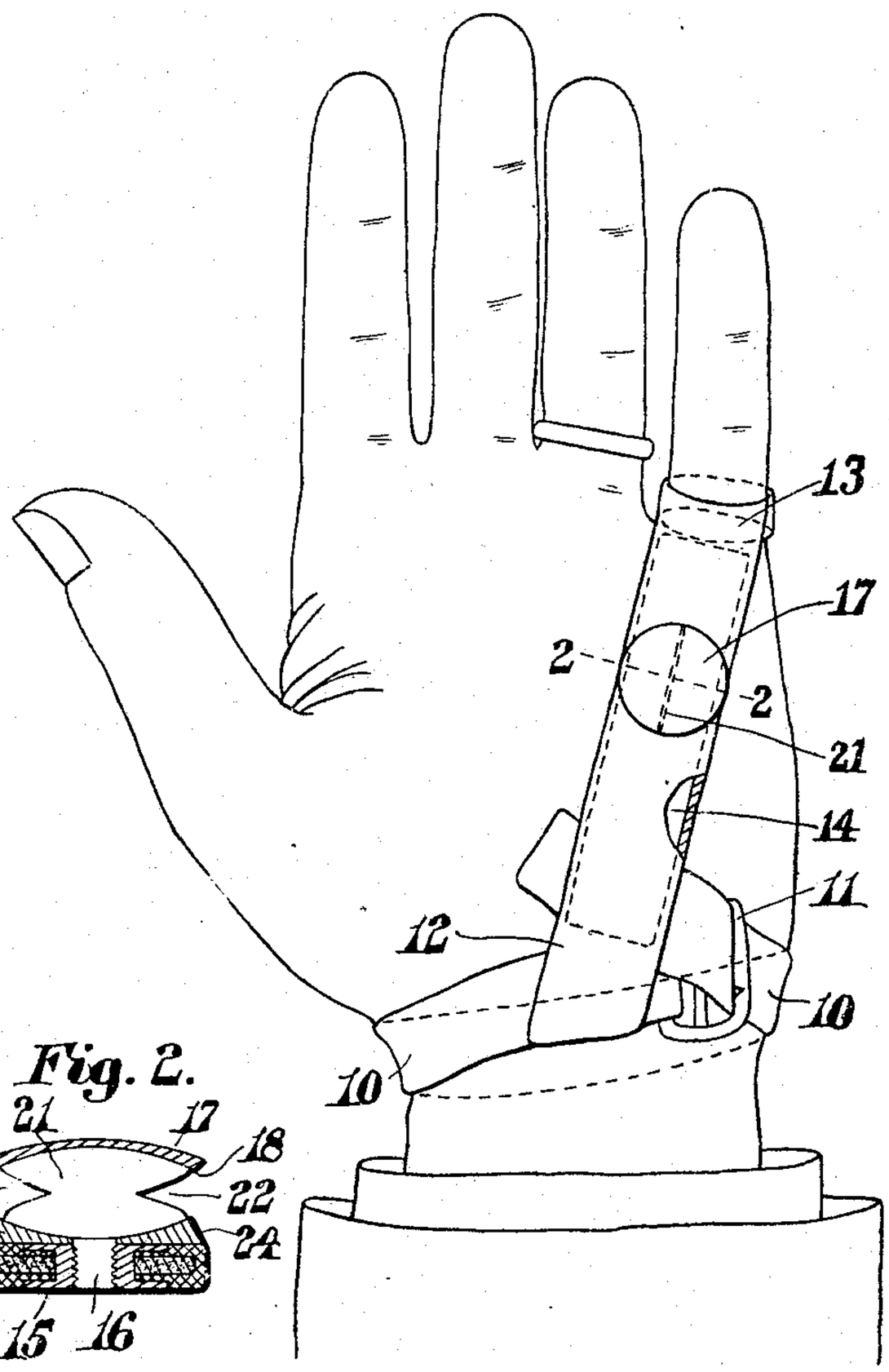

Fig. 2.

Fig. 4.

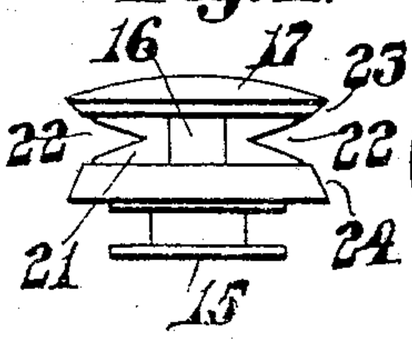

Fig. 6.

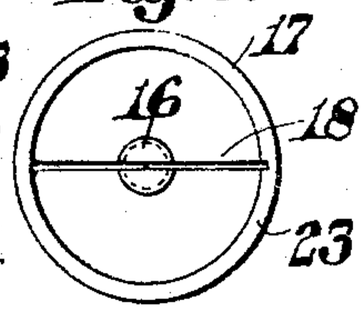

Fig. 3.

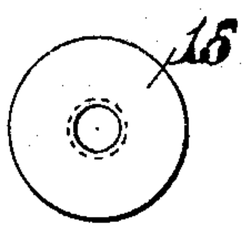

Fig. 8.

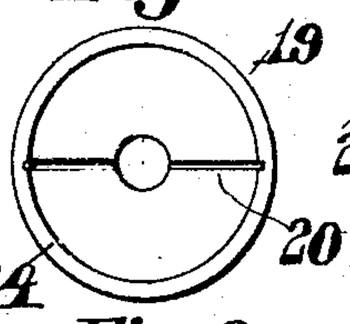

Fig. 5.

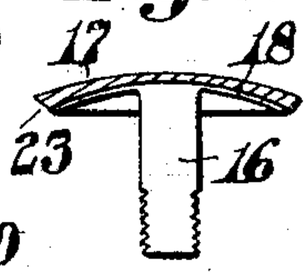

Fig. 7.

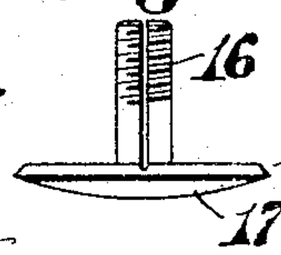

Fig. 10.

Fig. 9.

Witnesses:

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UNITED STATES PATENT OFFICE.

FRANK H. HASKELL, OF BOSTON, MASSACHUSETTS.

SAFETY TWINE-CUTTER.

939,129. Specification of Letters Patent. Patented Nov. 2, 1909.

Application filed June 26, 1909. Serial No. 504,608.

To all whom it may concern:

Be it known that I, FRANK H. HASKELL, a citizen of the United States of America, and a resident of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Safety Twine-Cutters, of which the following is a specification.

This invention relates to cutting devices especially adapted for use by salesmen or others for cutting cords, strings, or threads used for tying bundles, packages, or parcels, and has for its particular object the provision of a device of this class which may be used safely without danger of injury to the user. Most cutting devices of this nature now in use are so constructed that the user is always in danger of cutting himself, not only during the operation of cutting the thread, cord, or string, but also when the device is not in use; and the main object of the present invention is to so protect the cutting blade that accidents of this kind are absolutely prevented.

The invention consists in certain novel features of construction and arrangement of parts which will be readily understood by reference to the description of the drawings and to the claims hereinafter given.

Of the drawings: Figure 1 represents an elevation of a device embodying the features of the present invention applied to a hand. Fig. 2 represents a section through the cutting device and its support, the cutting plane being on line 2—2 on Fig. 1. Fig. 3 represents a plan of the nut. Fig. 4 represents an elevation of the cutting device and nut removed from the support. Fig. 5 represents a section of the outer disk and shank. Fig. 6 represents an inverted plan of same. Fig. 7 represents an elevation of same. Figs. 8 and 9 represent, respectively, a plan and a section of the washer disk, and Fig. 10 represents an elevation of the cutter blade. Figs. 2 to 10 inclusive are drawn to an enlarged scale.

Similar characters designate like parts throughout the several figures of the drawings.

In the drawings, 10 represents a band adapted to encircle the wrist of the user and to be secured thereto by an ordinary buckle 11 or some other fastening. Secured to the wrist band 10 is a connecting member 12, the opposite end of which has secured thereto a ring 13 of any material adapted to encircle the finger of the user, for the purpose of keeping the connecting member 12 taut. To still further stiffen the member 12 there is embedded therein a flat strip of leather or similar material 14, as shown in Fig. 1, or as is evident the connecting member 12 may be composed entirely of leather if desired.

Riveted or otherwise secured to the connecting member 12 is a nut 15 adapted to receive the shank 16 of a disk 17 made concavo-convex with its inner concave face provided with a narrow slit or groove 18 extending transversely thereof and registering with a slit or slot extending through the shank 16 throughout its length. Surrounding the shank 16 is a disk washer 19 also provided with a narrow slit or groove 20 similar to the groove 18 and extending diametrically across its outer concave face. The grooves 18 and 20 are adapted to receive the upper and lower edges of a cutting blade 21, the length of which is somewhat less than the diameter of said disks so that when in place no part of the blade 21 projects beyond the edges of said disks. The curved upper and lower edges of said blade 21 fit the curved inner ends of the grooves 18 and 20 and accurately position said blade to prevent lateral movement thereof. The blade 21 is also positioned in the slit or slot in the shank 16 and when the outer threaded end thereof is passed through the disk 19 and screwed into the nut 15 the two parts of the shank 16 are clamped upon the blade 21 to rigidly secure it in position. Each end of the blade 21 is provided with a V notch 22, the edges of which are sharpened in any well-known manner. The disks 17 and 19 are provided respectively with beveled edges 23 and 24 which are adapted to direct the cord, string, or thread to be cut into the space between said disks, these disks being retained separated by means of the blade 21. It is obvious that the degree of separation between the disks 17 and 19 may be varied by varying the height of said blade 21.

While in the preferred form the nut 15 is secured to some member such as 12 shaped upon the hand, it is evident that if desired the nut 15 may be secured to any other member without altering the principles of this invention.

It is obvious that as constructed the cutting edges of the blade 21 are so protected by the disks 17 and 19 it is impossible for the finger of the user to contact therewith

and become injured while at the same time a string, cord, or thread may readily be inserted between the disks 17 and 19 into contact with the cutting edge of the blade 21 and immediately be severed.

This makes a very convenient string or cord cutting device always ready for use, which while effective in its operation is perfectly safe, injury to the user by contact with the knife edges being absolutely prevented.

It is believed that the operation and many advantages of the invention will be fully understood from the foregoing.

Having thus described my invention, I claim:

1. In a device of the class described, the combination of two separated disks each provided with a diametrical groove therein; means retaining said disks in position; and a cutting blade interposed between said disks and positioned within said grooves.

2. In a device of the class described, the combination of a grooved disk having a shank provided with a slot registering with said groove; another disk surrounding said shank and provided with a groove in one face; a cutting blade positioned within said grooves and slot; and a nut on said shank for retaining all of said members in position.

3. In a device of the class described, the combination of a grooved disk having a shank provided with a slot registering with said groove; another disk surrounding said shank and provided with a groove in one face; a cutting blade provided with a notched cutting edge within the edges of said disks; and a nut on said shank for retaining all of said members in position.

4. In a device of the class described, the combination of a grooved disk having a shank provided with a slot registering with said groove; another disk surrounding said shank and provided with a groove in one face; a cutting blade provided with a notched cutting edge at each end within the edges of said disks; and a nut on said shank for retaining all of said members in position.

5. In a device of the class described, the combination with a finger ring, a wrist band, and connecting member; of a nut secured to said member; a disk provided with a shank threaded to said nut; a disk surrounding said shank; and a cutting knife interposed between said disks.

6. In a device of the class described, the combination with a finger ring, a wrist band, and connecting member; of a nut secured to said member; a disk provided with a slotted shank threaded to said nut; a disk surrounding said shank; and a cutting knife interposed between said disks and extending through the slot in said shank.

7. In a device of the class described, the combination with a finger ring, a wrist band, and connecting member; of a nut secured to said member; a grooved disk provided with a shank threaded to said nut; a grooved disk surrounding said shank; and a cutting knife interposed between said disks with its upper and lower edges in the grooves in said disks.

8. In a device of the class described, the combination with a finger ring, a wrist band, and a connecting member between said ring and band; of a blade extending lengthwise of and secured to said connecting member, said blade having a V-shaped cutting edge at each end thereof; and a disk extending over the edge of said blade.

Signed by me at 4 Post Office Sq., Boston, Mass., this 22d day of June, 1909.

FRANK H. HASKELL.

Witnesses:
NATHAN C. LOMBARD,
EDNA C. CLEVELAND.