May 6, 1924. 1,493,354

J. W. LINNEHAN

STRING CUTTER

Filed Aug. 26, 1922

Fig. 1.

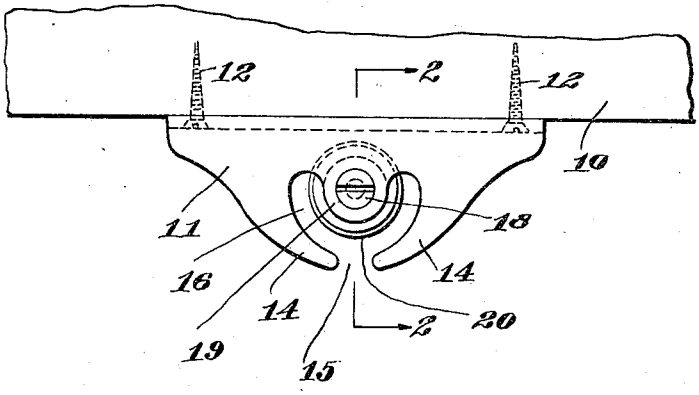


Fig. 2.

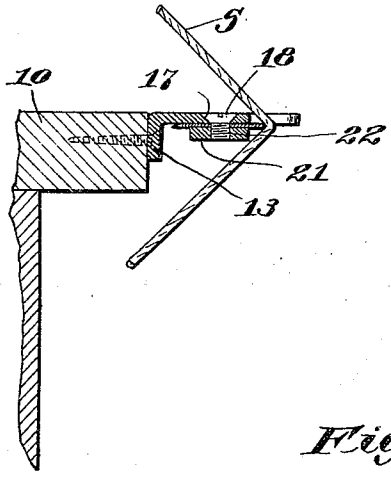


Fig. 4.

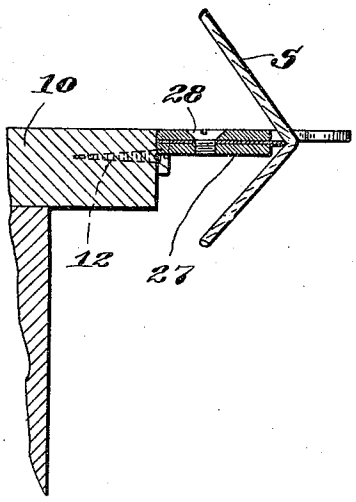
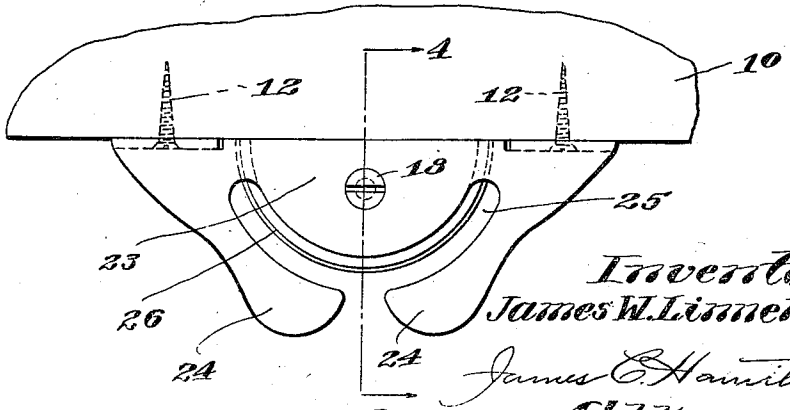


Fig. 3.



Inventor-
James W. Linnehan
by James C. Hamilton
his Attorney

Patented May 6, 1924. 1,493,354

UNITED STATES PATENT OFFICE.

JAMES W. LINNEHAN, OF SOUTH BOSTON, MASSACHUSETTS.

STRING CUTTER.

Application filed August 26, 1922. Serial No. 584,459.

To all whom it may concern:

Be it known that I, JAMES W. LINNEHAN, a citizen of the United States, residing at South Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in String Cutters, of which the following is a full, clear, concise, and exact description.

My present invention relates to cutters, and more particularly to string cutters for use in stores, shipping rooms and the like, where bundles are wrapped up and tied with string, cord or similar binding material.

As heretofore constructed, string cutters have been of the straight blade variety, with little or no protection against accident on the part of the careless operator, and in many cases bad cuts have been inflicted from unprotected instruments of this class. Another bad feature of most string cutters in use to-day, is that no provision has been made for adjustment of the blade to present new cutting surfaces or replacement of same without discarding the whole apparatus.

In my present invention, I have obviated the objections existing in previous structures of this type, and have developed a circular rotatably adjusted cutter blade that is of minimum size, simple in construction, safe and efficient in operation.

The principal object of my invention therefore, is a string cutter of the circular blade type.

Another object is an improved form of safety guard to hold the circular blade.

Still another object is an improved means for mounting said cutter blade so that new surfaces may be presented to the operator from time to time, and replacement of new blades made when all the sharp surfaces of the old blade have been utilized.

Other objects and novel features of the construction and arrangement of parts constituting my invention will appear as the description of the invention progresses.

In the accompanying drawings illustrating the preferred embodiment of my invention,

Fig. 1 is a plan looking down, and showing the string cutter mounted upon the edge of a counter, table or similar piece of furniture upon which bundles are placed to be wrapped;

Fig. 2 is a vertical section taken on the line 2—2 of Fig. 1.

Fig. 3 is a modified form of Fig. 1, and is also a plan view looking down on the same type of counter;

Fig. 4 is a vertical section taken on the line 4—4 of Fig. 3.

Referring to the drawings, 10 designates a wrapping counter or table, to the edge of which is secured the string cutter body 11, by screws 12 passing thru holes prepared for that purpose in the depending side of the cutter body 11. The depending side of the cutter body 11, I have indicated by the character 13, and is formed by the simple process of bending the long side of the member 11 down at right angles and thereby forming a right angled bracket to firmly mount the cutter as above described. The front of the cutter body is shaped in a semi-circular manner with a somewhat semi-circular cut-out portion 16 whose radial center is in the same plane as that of the outer guard members 14 which are separated by the opening 15 cut in the body member 11. At 17, I have provided a countersunk hole in which is inserted the machine screw 18. Directly below and on the opposite side of the central portion 19 of the body guard 11 is mounted the circular cutter 20 adapted to fit over the machine screw 18. Adjacent the cutter, and firmly clamping same to member 11, is the clamping collar 21 which is provided with a tapped hole 22 adapted to receive the machine screw 18 and firmly clamp the blade 20 to the central body member 19 of the body guard 11.

Fig. 4 shows a modified form in which a cutter of the same shape as in Figs. 1 and 2 may be used by splitting said cutter in two halves making two semi-circular halves. This form of string cutter is for use in shipping rooms where string of a heavier form is used. Fig. 3 is a plan view of same corresponding to Fig. 1 of the preferred form and having a guard member 23 with projecting members to effect an easy entrance to the cut-out recess 25. The cutter proper 26 is adapted to be clamped in the same manner to the body 23 as in Figs. 1 and 2 by means of the clamping member 27 on the under side of cutter blade, and the machine screw 28 which passes thru an opening prepared for that purpose in the blade 26.

In operation a string S is projected against the cutter 20 or 26 and in almost every case will have a tendency to be pushed to one side or the other of the central opening 15 causing it to be severed by coming

in contact with the blade 20 or 26, but at the same time the hands, wrists, arms and other parts of the operators body are protected from the blade 20 or 26 by the guard members 14. The smooth curved form of the guard as shown in Fig. 1 and again more pronounced at Fig. 3 eliminates many accidents to clothing by catching on the apparatus. After the cutter has been dulled by long use, the screw 18 may be loosened and the cutter blade 20 rotated to a new position thus presenting a fresh sharp edge. At the time when no more fresh cutting edges are available on cutter blade 20, a new blade may be inserted by removing the screw 18 entirely and substituting a new blade for the old one.

Having thus described my invention, what I claim as new, is:

An improved string cutter comprising in combination, a stationary guard and supporting member, the outer edge of which is shaped in the form of two oppositely opposed semi-crescents thereby forming an internal recess with a by-pass from the internal recess past the points of the semi-crescents to the outer edge of said guard, a circular cutter blade adjustably mounted upon said guard concentric with said internal recess and adapted to engage any foreign matter inserted between the points of said semi-crescents, a collar adapted to compress and hold said cutter blade against the under side of said guard by means of a tightening member passing through said guard, said blade and terminating in said collar.

In witness whereof, I hereunto subscribe my name this 24 day of August, 1922.

JAMES W. LINNEHAN.