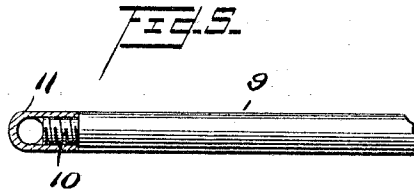
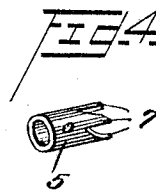
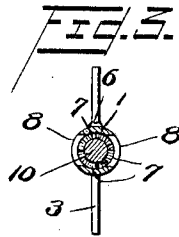
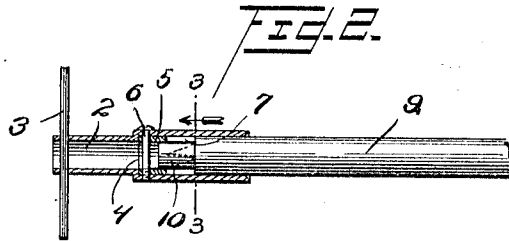
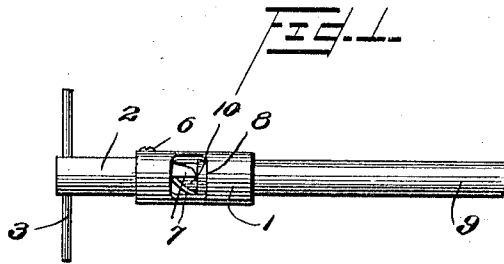


A. A. SHAPIRO.
CUTTING TOOL.
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1,048,218.

Patented Dec. 24, 1912.



Witnesses

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UNITED STATES PATENT OFFICE.

ABRAHAM A. SHAPIRO, OF BROOKLYN, NEW YORK.

CUTTING-TOOL.

1,048,218.

Specification of Letters Patent.

Patented Dec. 24, 1912.

Application filed November 18, 1911. Serial No. 660,949.

To all whom it may concern:

Be it known that I, ABRAHAM A. SHAPIRO, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Cutting-Tools, of which the following is a specification.

My invention relates to improvements in cutting tools, and more particularly to an improved tool which is designed for cutting the end or ends of a circular band or strap to shape the ends of the band or strap for the accommodation of the ordinary couplings which are screwed thereon.

Heretofore it has been common to cut the ends of the straps or bands with an ordinary penknife or like sharp instrument to reduce the end so that the coupling member can be screwed onto the strap. Frequently this method results in improperly centering the coupling on the strap, and does not give a firm hold to the threads because of the unevenness of the cutting. My improved tool is designed to quickly and accurately cut the ends of the strap or band, so that it is ready for the reception of its coupling member, and of a size and shape to properly center the coupling member and afford a firm grip to the threads of the coupling member.

With these and other objects in view, the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described and pointed out in the claim.

In the accompanying drawings: Figure 1, is a view in side elevation illustrating my improved cutting tool in the act of cutting the end of a strap or band. Fig. 2, is a similar view showing the tool in longitudinal section. Fig. 3, is a view in cross section on the line 3—3 of Fig. 2. Fig. 4, is a detail perspective view of the cutter removed, and Fig. 5, is a view partly in elevation and partly in longitudinal section illustrating an ordinary coupling member screwed onto the end of a strap or band.

My improved cutting tool comprises a cylindrical barrel 1 having a reduced end 2 through which a cross bar or handle 3 is secured to facilitate the turning of the tool. At the point of juncture between the main portion of the barrel 1, and the

reduced portion 2, an internal shoulder 4 is formed against which a cutter 5 is secured by means of a locking screw 6. This screw 6 is projected through registering openings in the barrel 1, and the cutter 2, and screwed into the barrel so as to effectually hold the cutter against rotary motion in the barrel. The cutter is of practically the same external diameter as the internal diameter of the barrel, snugly fitting within the latter, and at one end is provided with a circular series of cutting teeth 7. These cutting teeth are located beside openings 8 in the opposite sides of the barrel 1, so that the cuttings or shavings may pass out through said openings and not clog the tool.

9, represents an ordinary strap or band such for example as is used commonly on a sewing machine. In operation, one end of this strap or band is inserted in the barrel 1 and pressure applied on the tool against the end of the strap, while the tool is turning. This causes the cutter to cut the strap or band around its outer face inwardly a distance equal to the thickness of the metal of the tubular cutter, so as to form a reduced end 10 on the strap or band.

As the barrel 1 is made to fit the strap or band, the reduced end 10 will necessarily be curved concentric with the periphery of the strap or band, and it will be of uniform shape throughout. The tool will, of course, be of the proper size to cut this reduced end, so that it forces a perfect gripping action for the screw threads of an ordinary coupling illustrated at 11. In other words, the end which is formed on the strap or band, will be just the proper size to receive the coupling member, and as the latter is screwed onto this reduced end, its outer face will be flush with the strap, and its teeth will have a uniform gripping action throughout, so that the coupling is not only properly centered with relation to the strap or band, but it has a strong and rigid connection to the strap or band.

It will be noted that when the cutter becomes dull, it may be removed and sharpened or replaced by another, and hence the tool may be used indefinitely by replacing dull cutters with sharp ones.

Various slight changes might be made in the general form and arrangement of parts described without departing from my invention, and hence I do not limit myself

to the precise details set forth, but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claim.

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

10 As a new article of manufacture, a cutting tool of the character described comprising a barrel of two diameters forming a shoulder between its ends, a cutter removably positioned in said barrel and having

its inner end against said shoulder, a locking device in said barrel securing the cutter against rotary movement, and a handle 15 on the end of said cutting tool, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ABRAHAM A. SHAPIRO.

Witnesses:

HERMAN SHAPIRO,
MICHAEL SHAPIRO.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."