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E. R. JONES

2,601,724

YARN KNIFE

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Fig.1.

Fig.2.

Fig.3.

Fig.4.

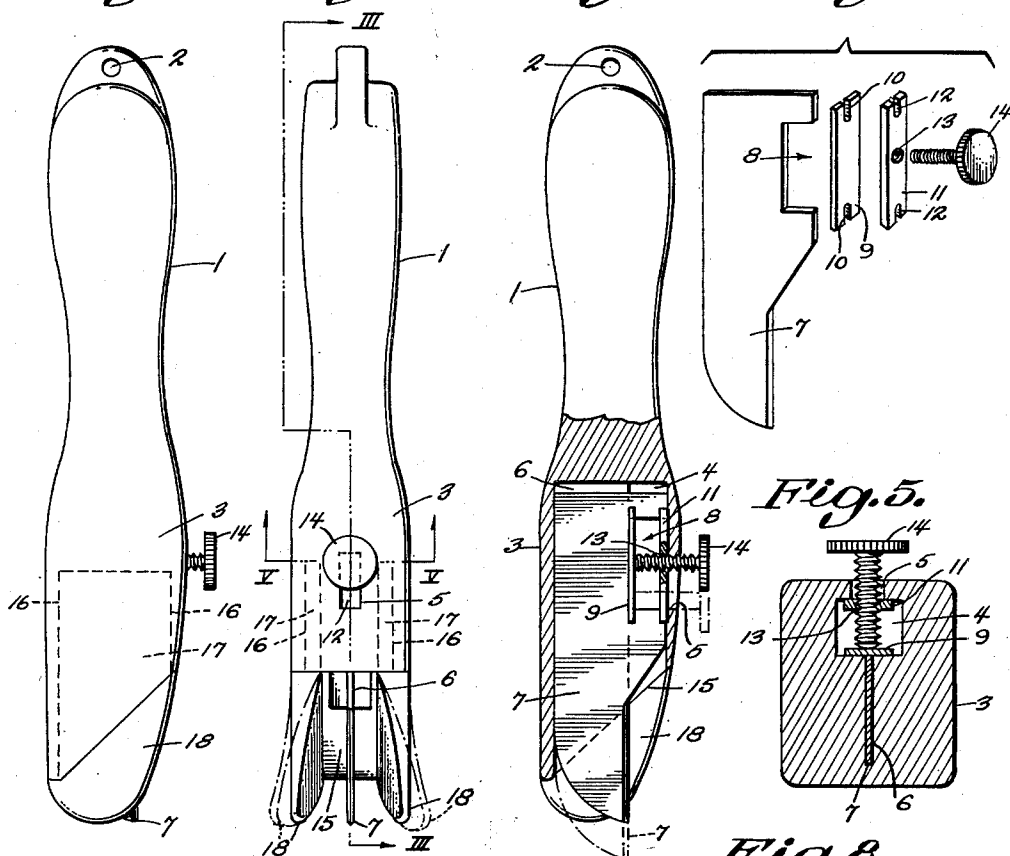
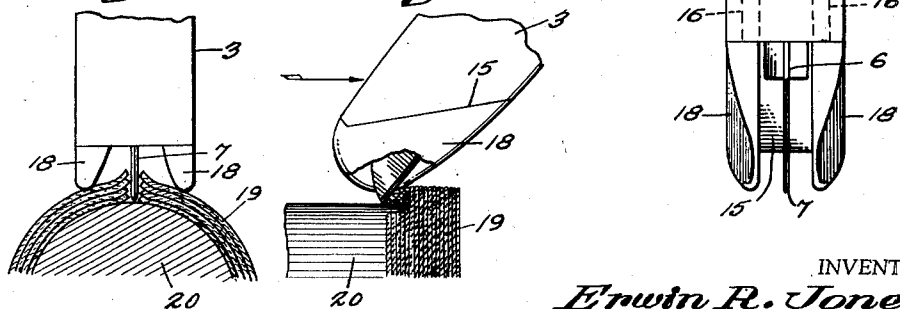


Fig.6.

Fig.7.

Fig.8.



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YARN KNIFE

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2 Claims. (Cl. 30—294)

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The present invention is directed to improvements in yarn cutters, or yarn knives.

The primary object of the invention is to provide a device of this character so constructed that the yarn remaining on a used bobbin can be easily and quickly cut therefrom in order that the bobbin may be rewound with new yarn.

A further object of the invention is to provide a device of this character constructed in such manner that it can be adjusted to effectively cut the yarn from bobbins of various sizes.

With these and other objects in view, this invention resides in the novel features of construction, formation, combination and arrangement of parts to be hereafter more fully described, claimed, and illustrated in the accompanying drawing, in which:

Figure 1 is a side view.

Figure 2 is a front view.

Figure 3 is a sectional view on line III—III of Figure 2.

Figure 4 is a detail perspective view of the cutting blade and its associated parts.

Figure 5 is a sectional V—V of Figure 2.

Figure 6 is a partial cross section of bobbin, showing the bobbin in cross section and the yarn being cut.

Figure 7 is a similar view showing the cutter and bobbin, partially in section.

Figure 8 is a fragmentary front view of the device showing the fingers in a fixed position.

Referring to the drawing, 1 designates a handle, formed from any suitable material, and having an eye 2 formed in its upper end in order that the tool may be suspended upon a nail.

The handle 1 is formed with an enlarged portion 3 having an elongated recess 4 formed therein, said recess being open at its lower end, as shown in Figure 3.

Opening into the recess 4 is a slot 5, the purpose of which will appear later.

The base of the recess 4 is provided with a centrally located groove 6, and slidably mounted therein is a cutting blade 7. The blade 7 is provided with a recess 8 and in which is seated a plate 9 having notches 10 formed in its ends for interlocking with the ends of the recess 8.

A clamping plate 11 is provided and has in each end a notch 12 for slidably engaging the ends of the recess 8. A threaded opening 13 is formed centrally of the plate 11 and in which is engaged the clamping screw 14. As shown in Figure 3 the clamping screw is threaded in the opening 13 of the plate 11, and has its inner end engaged with the plate 9. Obviously upon turning the screw 14 in one direction the plate 11 will be drawn into clamping engagement with the side wall of the recess 4, and the inner edge of the blade 7 will be forced into clamped engagement with the handle and upon turning the screw 14 in a reverse direction the blade 7 and

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plate 11 will be released in order that the blade may be moved inwardly or outwardly, as desired.

The lower end of the handle 3 is beveled as at 15, and is further provided with pockets 16 for removably receiving the webs 17 of the bobbin engaging fingers 18 in order that said fingers will be held in spaced relation.

These fingers may be inter-changed, as indicated in dotted lines in Figure 2 in order that the device may be used to cut yarn remaining on bobbins varying in diameter.

In operation, the handle 1 is grasped, and after proper lateral adjustment of the fingers 18 and cutting blade 7, the tool is drawn in the direction of the arrow in Figure 7, thus severing the yarn 19 remaining on the bobbin 20.

Since the spaced fingers engage the bobbin yarn as the device is being drawn along the same the danger of the device slipping off the bobbin and injuring the user is positively prevented.

What is claimed is:

1. In a device of the class described, the combination of a handle provided with a lower end, said handle provided in said lower end with a plurality of pockets, separate detachable fingers each provided with a web, said webs of said fingers positioned in said pockets, and a blade extending into said handle between said detachable fingers.

2. In a device of the class described, the combination of a handle provided on its lower end with fingers, a bodily slidable blade in said handle and between said fingers, said blade provided with a recess, a clamping plate provided on its upper and lower end with notches, portions of said blade extending into said notches, a detachable plate provided with notches on its upper and lower ends, portions of said blade extending into said notches, said clamping plate formed with an aperture, and a screw extending through said aperture of clamping plate and bearing at its inner end against said detachable plate, whereby when said screw is screwed inwardly, the detachable plate will press tightly against said blade and the clamping plate will press tightly against a portion of the handle.

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