Feb. 11, 1930. P. A. CROUSE 1,746,580

STRIPPING PLUG FOR WAXED THREAD

Filed Sept. 7, 1928

Fig. 1

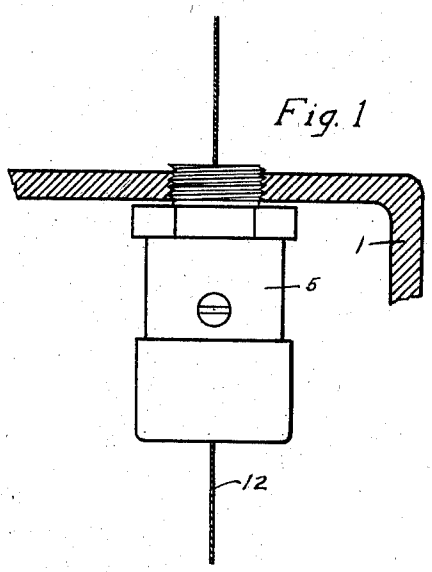


Fig. 3

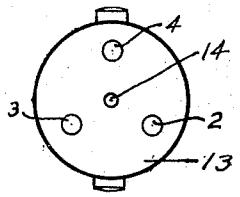


Fig. 2

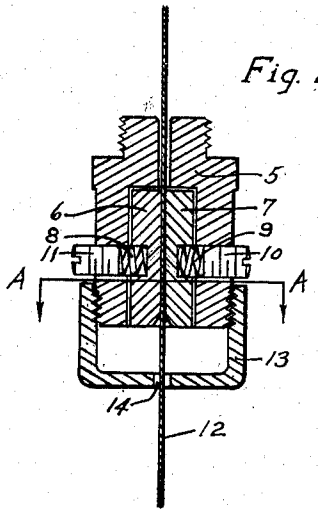
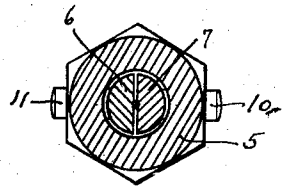


Fig. 4



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UNITED STATES PATENT OFFICE

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STRIPPING PLUG FOR WAXED THREAD

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This invention relates to means for stripping excess wax from thread, used in sewing leather, and for providing a tension on the thread.

Waxed thread strippers now in use require frequent renewal of certain parts, due to wear and deterioration.

With the use of my invention much greater durability and a more positive tension result from the co-operation of parts.

To more particularly describe the invention I refer to the accompanying drawing, in which—

Fig. 1 is a side elevation showing the invention attached to the wax pot;

Fig. 2, a detailed sectional view of the plug;

Fig. 3, a bottom plan view of the invention; and

Fig. 4, a horizontal section on the line A—A in Fig. 2.

Like characters of reference indicate like parts throughout the several views of the drawing.

The cylindrical housing 5 makes a screw-threaded engagement with the wax pot 1. This housing has a central bore within. Two semi-cylindrical blocks 6 and 7, are put face to face within the bore but have considerable freedom to move laterally one to the other. The two adjacent faces have a matched longitudinal groove along which the thread 12 passes. Springs 8 and 9 are compressively held against the blocks 6 and 7 by screws 10 and 11 which may be adjusted so that any desired pressure may be obtained to grip the thread 12 therebetween accordingly.

The lower part of plug 5 is externally screw-threaded and is engaged by an internally threaded cup 13. The flat surface of this cup is centrally perforated with a hole 14 which guides and permits the passage of thread 12. This cup is also perforated with holes 2, 3 and 4 which permit the return of stripped wax to the wax pot.

In the operation of my invention wax in a melted state is contained in the pot 1 and the thread 12 is saturated and given an excess coating, by contact with the melted wax. The thread in this condition is drawn out of the pot through my invention and the excess of wax is stripped off by the adjustable blocks 6 and 7, to an extent which is regulated by the position of the set-screws 10 and 11. The stripper is located on the inside of the pot in order that the excess wax removed will drain back through holes 2, 3 and 4 into the pot. The blocks 6 and 7 are rendered automatically adjustable in their distances apart by the springs 8 and 9 to allow a knot or other enlargement in thread diameter to pass the blocks.

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

1. In a thread-waxing device, the combination with a wax pot, of a longitudinally perforated plug through which the waxed thread passes from the pot, said plug being in a plurality of longitudinally separable parts to adjust the size of the perforation, each part having a radial socket, a spring seated in each socket, a plug holder, a plurality of set screws supported by the holder and cooperating with said springs to allow automatic separation of the parts.

2. In a thread waxing device, the combination with a wax pot, of a cylindrical housing located within the pot having a central bore and a thread exit from the pot, a pair of semi-cylindrical blocks with adjacent faces and opposite longitudinal grooves loosely assembled in the bore, said blocks each having sockets in diametrically alined pairs, a spring seated in each socket, and a set screw for each spring supported by the housing and co-operating with the springs to regulate the separation of the blocks.

3. In a thread waxing device, the combination with a wax pot, of a cylindrical housing located within the pot having a central

bore and a thread exit from the pot, a pair of semi-cylindrical blocks with adjacent faces and opposite longitudinal grooves loosely assembled in the bore, said blocks each having sockets in diametrically alined pairs, a spring seated in each socket, and a set screw for each spring supported by the housing and cooperating with the springs to regulate the separation of the blocks, and a cup secured to the inner end of the housing having a hole through which the thread passes and is guided, and having other holes for the return of stripped wax to the pot.

In testimony whereof I affix my signature.

PAUL A. CROUSE.