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WHITENING KNIFE FOR TREATING LEATHER

Filed Sept. 22, 1928

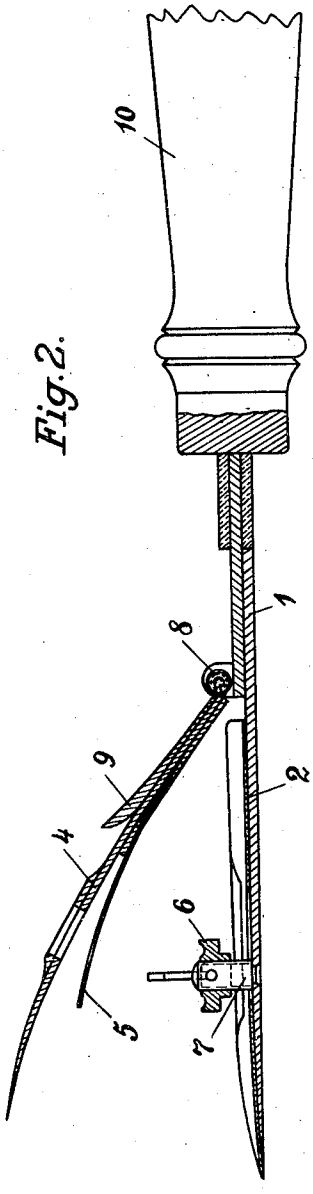


Fig. 2.

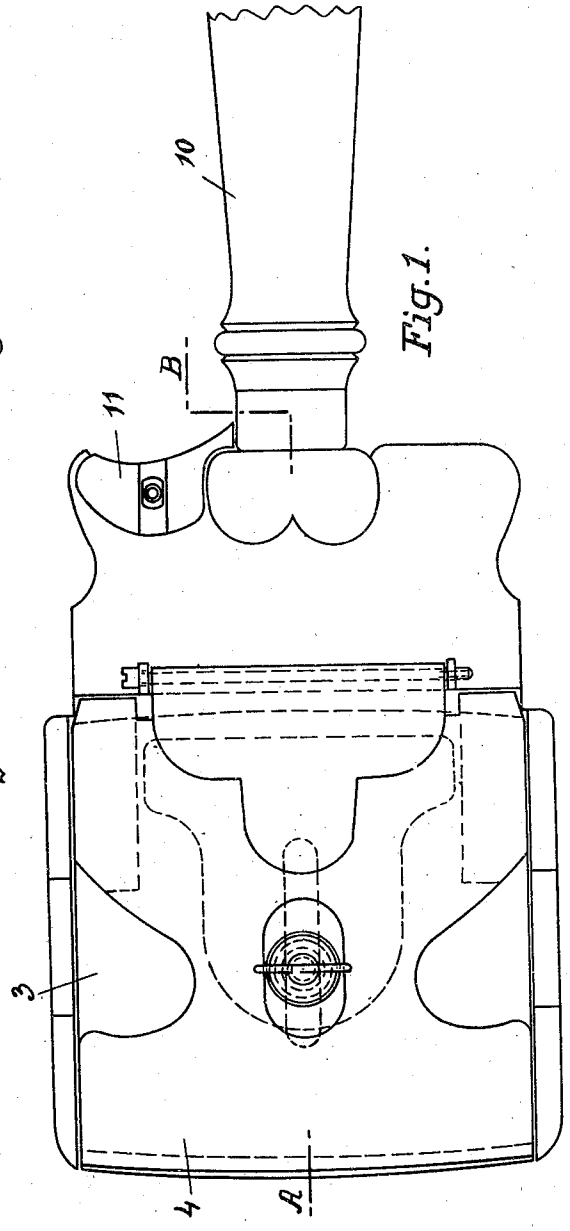


Fig. 1.

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WHITENING KNIFE FOR TREATING LEATHER

Application filed September 22, 1928, Serial No. 307,684, and in Germany April 18, 1928.

In the treatment of leather and gloves whitening knives are used, generally consisting of a steel plate and having a cutting edge on one edge. If the cutting becomes less good, it is necessary to give to the cutting edge a hollow grinding several centimeters long in order to renew the cutting capability. The hollow grinding can be carried out only by skilled workmen, whereby the expenses connected with the use of the whitening knife are increased. A further inconvenience consists in that the hardness of the knife steel is reduced by the grinding so that the man, who uses the whitening knife must regrind it by hand on a whetting steel.

This regrinding is very difficult and connected with a very considerable loss of working time. The regrinding by hand is further connected with other inconveniences as the whitening knife does not preserve the original special cut, the rounded corners of the knife becoming sharp-edged by the regrinding so that it happens that the sharp edge produced by the grinding cuts into the leather at the whitening of the hide so that it becomes partly useless. After the whitening knives of known type have been used for a longer time, the wear has become so great that new knives have to be used, whereby the current expenses are further increased.

To avoid these inconveniences a whitening knife is created, according to the invention, which avoids all the above mentioned inconveniences. No hollow grinding and regrinding of the whitening knife is necessary, as by a thin steel blade, which is interchangeable, adjustable and provided with double sided capability, the whole working process can be carried out without great expenses and without loss of time.

An embodiment of the invention is illustrated by way of example, in the accompanying drawing, in which

Fig. 1 shows the improved whitening knife in top plan view.

Fig. 2 is a side elevation partly in longitudinal section.

The whitening knife according to the invention consists of a base plate 1 and of a cutting plate 2 of thin steel supported by said base plate. The cutting blade 2 is adapted to be uniformly and easily shifted forward and backward by means of the thumbs of the hand placed into the indentations 3 in the clamping lid 4 so that said cutting blade can be adjusted accurately in accordance with the cut to be carried out. The portions of the surface of the cutting blade 2, which are free owing to the indentations 3, may be roughened so that a good hold is afforded for the thumb points at the shifting of the cutting blade.

On the surface of the clamping lid 4 facing the cutting blade 3 a blade spring 5 is arranged designed to lift the clamping lid off the cutting blade if the clamping nut 6 on the clamping screw 7 has been slightly unscrewed so that the cutting blade can be readily shifted.

The clamping blade 4 is connected at the rear end by a hinge 8 to the base plate 1.

After the cutting blade has been adjusted to the cut to be carried out, the nut 6 is tightened so that the cutting blade is securely clamped between the base plate and the clamping lid. The cutting blade is fixed so that it cannot move between the base plate and the clamping lid.

The front end of the base plate 1 is bevelled from the clamping screw 7 to the cutting end, in order that the cutting blade be strongly tightened and adjusted in downward direction to the cut towards the surfaces of the leather to be treated.

On the upper surface of the clamping lid 4 a plate 9 upwardly curved at its free end is arranged, designed to serve as support for the index of the hand which exerts the main pressure onto the apparatus at the whitening of the hide, so that this index cannot slip off.

At the side of the handle 10 a protecting shield 11 for the middle finger is arranged at the end of the base plate 1 so that this middle finger finds a comfortable support and cannot be injured.

I claim:—

1. A whitening knife, comprising in combination a base plate, a clamping lid and the steel blade, a blade spring on the lower

surface of said clamping lid designed to bear against said steel blade.

2. A whitening knife as specified in claim 1, comprising in combination with the base plate and the clamping lid, a hinge fixing said clamping lid on said base plate.

3. A whitening knife as specified in claim 1, comprising in combination a base plate, a handle of said base plate, a clamping lid hingedly mounted on said base plate, and having an indentation inwardly extending from each side edge, and a steel blade clamped between said base plate and said clamping lid and roughened on the portions of its upper surface under said indentations of said clamping lid.

4. A whitening knife as specified in claim 1, comprising in combination with the base plate and the clamping lid, an upwardly curved supporting plate for the index on the upper surface of said clamping lid, and a protecting shield on the rear end of said base plate designed to hold and protect the middle finger.

In testimony whereof I affix my signature.

HEINRICH WILL.