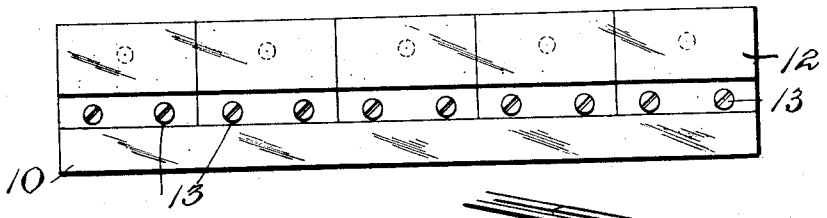
May 2, 1933. J. SCHICK 1,906,635

HOLDER FOR USE IN GRINDING MACHINES

Filed April 6, 1927

Fig. 1



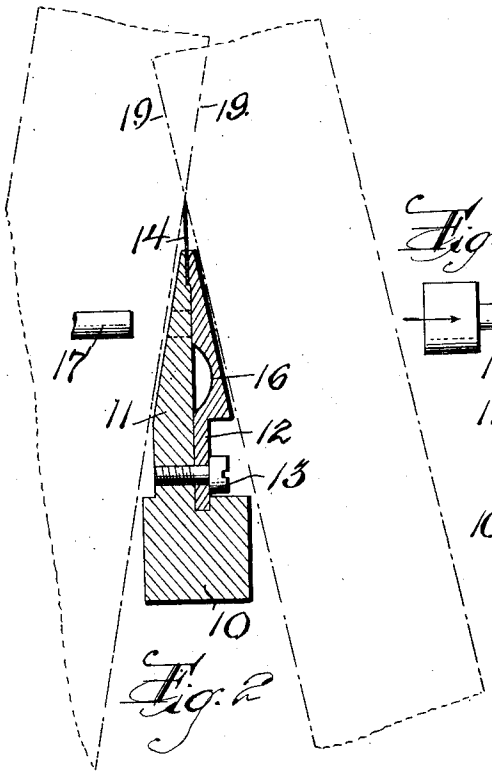


Fig. 2

Fig. 3

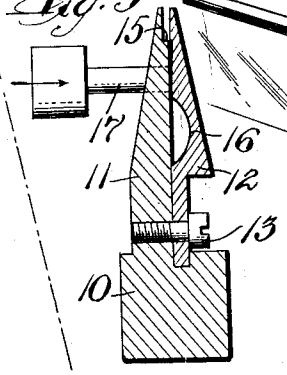


Fig. 5

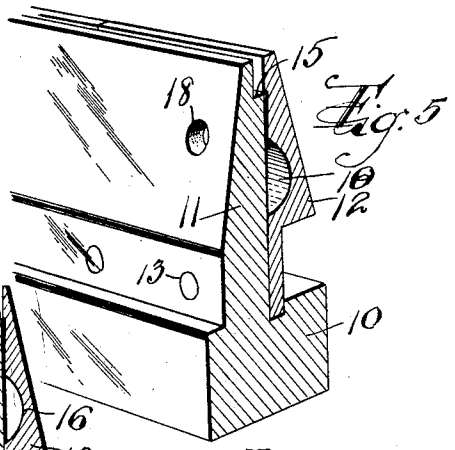


Fig. 6

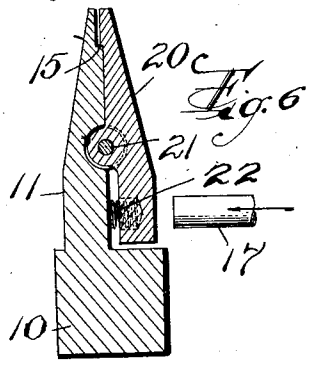
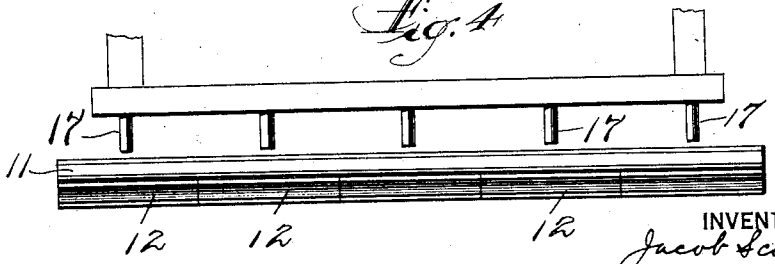


Fig. 4



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Patented May 2, 1933

1,906,635

UNITED STATES PATENT OFFICE

JACOB SCHICK, OF SOUND BEACH, CONNECTICUT, ASSIGNOR TO MAGAZINE REPEATING RAZOR COMPANY, A CORPORATION OF NEW JERSEY

HOLDER FOR USE IN GRINDING MACHINES

Application filed April 6, 1927. Serial No. 181,290.

This invention relates to an improved holder for use in blade grinding and honing machines and is of the type used in the machine described in the application in which I am a joint inventor with Dorlias Nadeau, which application was filed May 19, 1926, Serial Number 110,045.

The device is a holder which retains and passes a blade along the grinding or honing discs and travels in a rigid track since the grinding is with precision and the holder is a stable rigid one. The invention embodies a holder of a construction that allows a quick insertion and removal of blades into and from the holder, which is of advantage in quick production machinery which includes a filling mechanism for inserting blades in the holder and a stacking machine which removes the blades endwise from the holders and places them in stacks for use in safety razors.

The invention can be used in other connections but is primarily constructed for the holding of narrow blades such as are used in my magazine razor patented May 18, 1926, No. 1,584,811.

The invention is illustrated in the accompanying drawing in which Figure 1 is a side view of a holder for receiving five blades. Figure 2 is an enlarged section of the holder closed and Figure 3 is a similar view showing the holder open to receive a blade. Figure 4 is a top view of a multiple holder showing a set of releasing tools for opening the holder. Figure 5 is a sectional perspective of the holder and Figure 6 is a section of a holder of modified form.

The holder can be made in single units each holding a blade but in practice it is usual to have each holder receive a number of blades.

The invention can be made in single units but I show in the drawing a holder for five blades the holder having a base 10 on which is a rigid wall 11. The parts of the holder are usually made of steel and are hardened so as to be durable especially in view of their being slid lengthwise in a track of suitable construction. The holder has a plate secured to the wall 11 and I show a plate 12 secured by a screw 13 and the plate and wall co-operate to hold a blade 14 between them at their ends, the blade resting on a shoulder on one of the elements such as the shoulder 15 on the wall 11. The plate 12 is cut away at desired points such as the hollow part 16 to give enough resiliency to the plate to enable it to spring a little to release or receive the blade 14.

The plate 12 is designed to be sprung outwardly to load and unload it, usually in a machine for this purpose and I have illustrated a prong or prongs 17 which is adapted to pass through the hole or holes 18 in the wall 11 so that the plate can be sprung outward as shown in Figure 3.

The outer walls of the wall 11 and plate 12 are tapered toward the top to allow the grinding or honing discs 19 to be arranged at the proper angle to treat the edge of the blade 14.

When the holder is in use in the quantity production of blades it passes through a loading machine which has a set of prongs as in Figure 4 which open the holder to allow the blades to be dropped into place. As soon as the prongs 17 retreat the holder is ready for the grinder. After the grinding is finished the blades can be removed, usually endwise from the holder, by again pressing a set of prongs 17 against the plate 12, this time in an unloading machine.

In Figure 6 I show a modified form of plate, which plate 20 is pivoted as at 21 to the wall 11 and the spring 22 holds it in clamping position. The prong 17 in this case engages the plate 20 below the pivot to open the holder to insert or remove a blade 14.

I claim:

1. A blade holder for sharpening machines comprising an elongated rigid back plate, clamping jaws rigidly fixed to said back plate and of sufficient length to hold a plurality of blades, one of said jaws having an inner ledge, said ledge being of sufficient width to maintain the jaws in spaced relation, said space being less than the normal thickness of the blades held, thus enabling the jaws to properly grip and hold the blades; one of said clamping jaws being rigid and the

other resilient, said rigid jaw extending uninterruptedly the whole length of the holder, the said resilient jaw being divided to afford a plurality of clamping fingers adapted to engage the blades individually, thus adapting the holder to grip blades of slightly varying thickness properly.

2. A blade holder for sharpening machines comprising an elongated rigid back plate, and clamping jaws rigidly fixed to said back plate and of sufficient length or extent to hold a plurality of blades, one of said jaws having a ledge of less width than the thickness of the blades to be sharpened, so that the normal space between the outer gripping edges of said jaws will be less than the thickness of the blades to be inserted in the holder, thus enabling the jaws to properly grip and hold the blades, said back plate being provided with a groove or channel in which the backs of the clamping jaws fit.

In testimony whereof I affix my signature.

JACOB SCHICK.