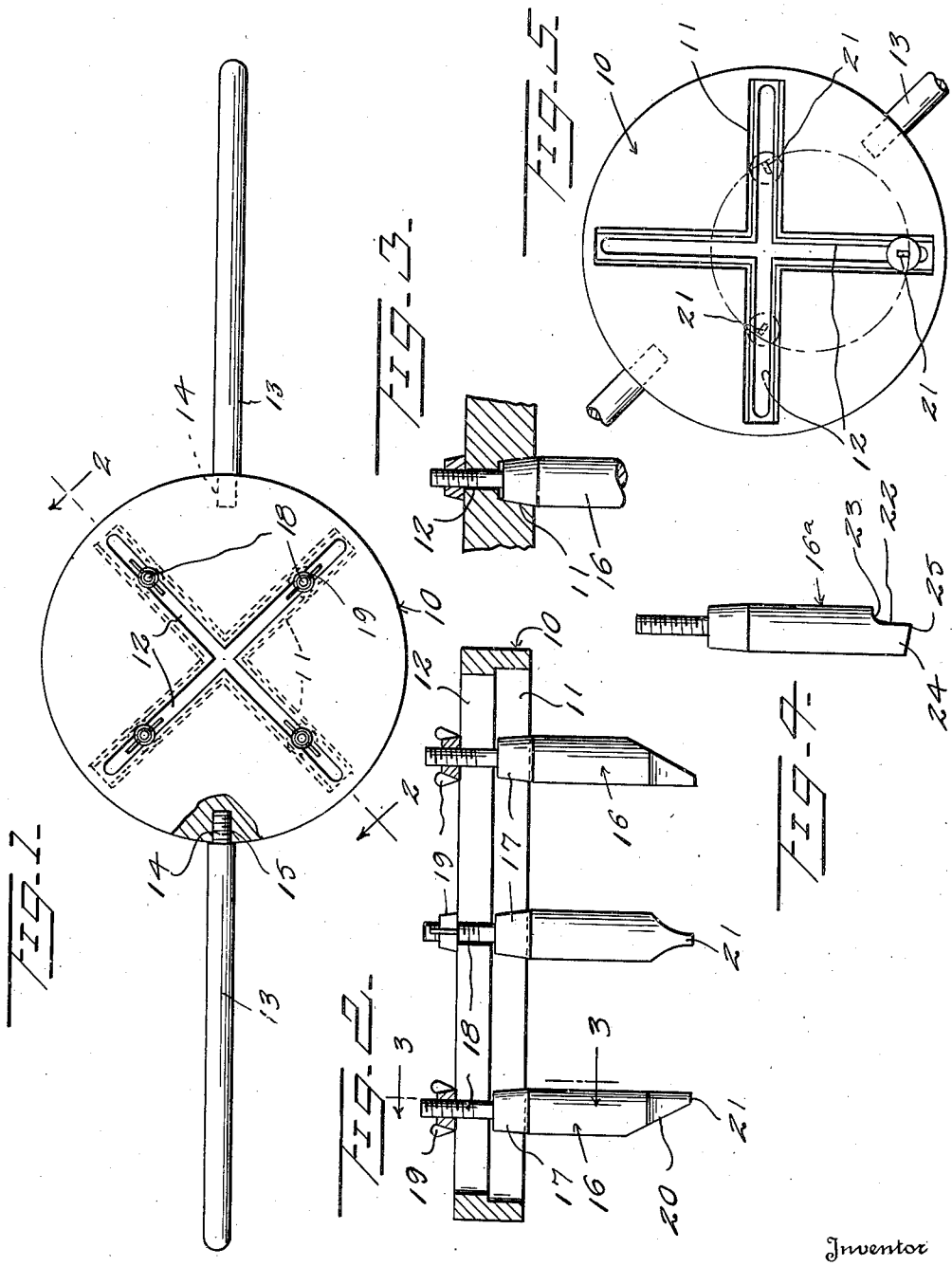
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WATCHCASE WRENCH

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WATCHCASE WRENCH

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2 Claims. (Cl. 81—6)

This invention relates to wrenches, and more particularly to a wrench designed for removing the bezel or back of a waterproof watch.

In waterproof watches the back is screwed onto the body of the watch, and in order to have the watch moisture tight, the back and the bezel of the watch are formed with a plurality of notches or recesses for receiving a tool so as to loosen or tighten the back. It is, therefore, an object of this invention to provide a wrench or tool which is readily adjustable so that it can be adjusted to fit various sizes of backs.

Another object of this invention is to provide a wrench which can be used with watches having two or more notches, the wrench embodying a series of lugs which are adjustable and, if desired, one or more lugs may be removed or shifted out of the way so that the desired lugs may be used to loosen or tighten the back of the watch.

In the drawing:

Figure 1 is a detail top plan partly broken away and in section of a wrench constructed according to an embodiment of this invention;

Figure 2 is a sectional view taken on the line 2—2 of Figure 1;

Figure 3 is a fragmentary sectional view taken on the line 3—3 of Figure 2;

Figure 4 is a detail side elevation of one of the lugs; and

Figure 5 is a bottom plan partly broken away of the wrench showing the manner in which the wrench is used for a watch back having three notches.

Referring to the drawing, the numeral 10 designates generally a disc-shaped wrench body which is formed in the lower side thereof with a pair of crossed channels 11. The channels 11 are of tapered construction, and the body 10 is also formed with a pair of crossed slots 12 which open through the upper side of the body 10 and communicate with the channels 11. The body 10 has secured thereto a pair of diametrically disposed handles 13 which are formed at their inner ends with reduced threaded studs 14 engaging in threaded sockets 15 carried by the body 10.

The body 10 is adapted to have positioned in the lower side thereof, and projecting from the channels 11, a plurality of lugs or pins 16. The lugs or pins 16 are formed at their upper ends with tapered portions 17 which are adapted to engage in the tapered channels 11, and the lugs or pins 16 are also formed with reduced threaded studs 18 loosely engaging through the slots 12. A thumb or wing nut 19 is threaded onto the stud 18 and is adapted to tightly hold the lug or pin 16 in adjusted position lengthwise of a channel 11. The lug 16 at its lower end is formed with a beveled portion 20 forming a reduced thickness nose 21. The nose 21 is adapted to engage in a notch or recess formed in the back of a watch so that when the body 10 is turned, the back may be either loosened or tightened.

The beveled or cutoff portion 20 of the lug 16 is inclined outwardly and upwardly so that the inclined or beveled side 20 thereof will clear the crown of the watch. In Figure 4 there is shown a lug 16a which is slightly different from the lug 16, in that the lug 16a is formed with a cutout 22 which extends from the lower end of the lug 16a parallel with the axis of the lug and is then curved outwardly, as indicated at 23. This cutout portion 22 is designed for the purpose of permitting the lug to clear the crown or other portion of the watch. The lug 16a is formed with a reduced thickness nose 24 having the lower surface 25 thereof inclined upwardly and inwardly. Nose 24 has the lower surface thereof inclined as at 25 so that proper clearance will be provided to clear any ornamentations which may be on the outer portion of the watch.

In the use and operation of this wrench, where the watch back is formed with four notches, there are four lugs 16, as shown in Figure 1, mounted in the crossed channels 11. The lugs 16 are adjusted relative to each other within the channels 11 by loosening the wing nuts 19, the positions of the lugs being such as to provide for the nose 21 of each lug engaging in a notch of the watch back. The nuts 19 are then tightened so that the several lugs will be firmly secured in the channels 11 and will not move relative to each other or to the plate or body 10. The nose 21 of each lug is then engaged in the notch of a watch back, whereupon the handles 13 are turned so as to turn the entire wrench, and with the turning of the wrench the watch back will be either loosened or tightened relative to the body of the watch.

What is claimed is:

1. A wrench comprising a flat body formed with a tapered channel opening through one side thereof and with a slot extending lengthwise of said channel and communicating therewith, a pair of work engaging members extending from one side of said body, each member being formed at one end thereof with a tapered end portion for binding engagement with the tapered sides of said channel, said slot forming a pair of shoulders at the inner end of said channel and constituting a limiting means for said members, a threaded stud carried by each member loosely ex-

tending through said slot, and a nut threaded on each stud for locking said members in adjusted position lengthwise of said channel.

2. A wrench comprising a flat body formed with a pair of crossed tapered channels opening through one side thereof and with a pair of crossed slots extending lengthwise of and communicating with said channels, a pair of work engaging members in each channel and extending from one side of said body, each member being formed at one end thereof with a tapered end portion for binding engagement with the tapered sides of said channels, a threaded stud carried by each member loosely extending through said slots, and a nut on each stud for locking said members in adjusted position lengthwise of said channels.

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