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RECEPTACLE FOR RAZOR BLADES

Original Filed July 16, 1927

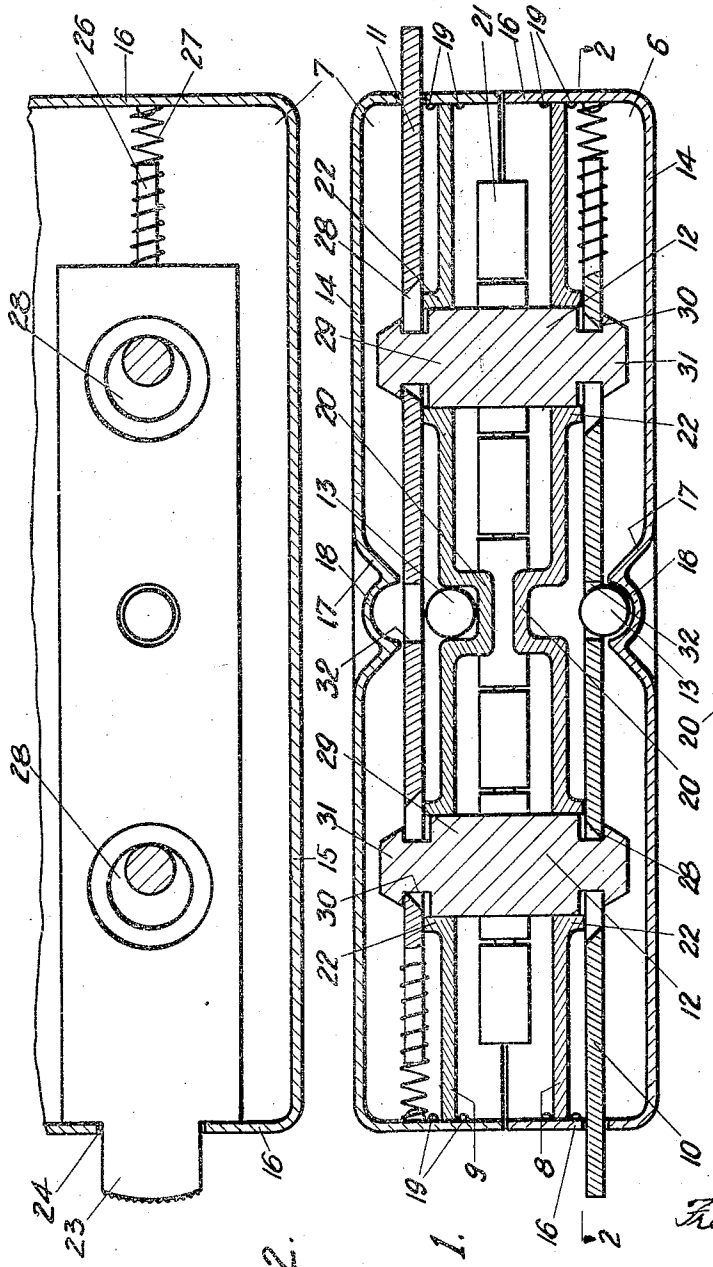


Fig. 2.

Fig. 1.



Fig. 3.

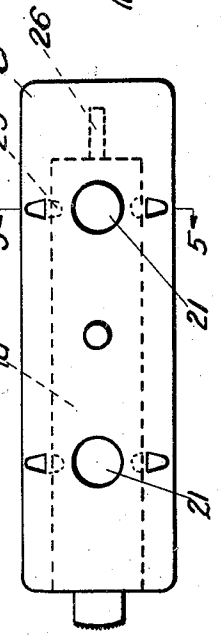


Fig. 4.

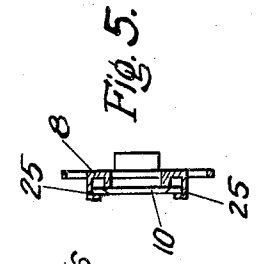


Fig. 5.

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RECEPTACLE FOR RAZOR BLADES

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The invention relates to receptacles and the especial receptacle forming the object of the present invention is intended to receive and store blades for safety razors.

It is a well known fact that razors which are being used every day will not last very long even when they are strapped before being used. On the other hand it is well known that steel tools after being used for some length of time and having lost their sharpness will regain the same and may be used again as before if these tools will be put away for some length of time. Razor blades which are used one day and then put aside, say for a week may be used practically indefinitely.

The object of the invention therefore is to provide a receptacle adapted to receive a plurality of razors blades and keep said blades in a certain rotation.

A further object of the invention is to provide a receptacle for safety razor blades which will make it possible for the user to employ every blade of the plurality stored in this receptacle in a certain rotation without great trouble.

A still further object of the invention is to provide a receptacle for safety razor blades automatically storing or placing the sharp blades to be used on top and the dull blades, which should rest for some time, on the bottom.

Other objects of the invention not specifically mentioned may be easily ascertained and understood from the following description on hand of the accompanying drawings forming a part thereof. It is however to be understood that the invention is not to be restricted or limited to the exact construction or formation shown in the drawings and described in this specification but that such changes and alterations may be made as fall into the scope of the claims appended hereto.

In the drawings Figure 1 is a vertical section taken on the longitudinal center line of the receptacle according to the invention.

Figure 2 is a section on line 2—2 of Figure 1.

Figure 3 is a longitudinal section through one of the bottom plates in a smaller scale than in Figures 1 and 2.

Figure 4 is a view of the bottom carrying a locking slide and Figure 5 is a section on line 5—5 of Figure 4.

The receptacle consists of a housing having two box shaped parts 6 and 7 respectively, two bottom plates 8 and 9 respectively, two sliding plates 10 and 11 respectively, two guide pins 12 and two locking balls 13.

The two box shaped parts of the housing are formed alike and it is therefore only necessary to describe one of these parts. The outside shape of said parts is rectangular and each part has a bottom 14 from which side and end walls 15 and 16 respectively extend at right angles. The center portion of the bottom of each part is bent inwardly so that a conically shaped portion 17 is formed and this portion ends in a hemispherical socket 18 adapted to receive one of the locking balls 13.

Into each housing part one of the bottom plates 8 and 9 is inserted and is held in position in any suitable manner. In the drawings the bottom plates 8 and 9 respectively are held in position by means of dents 19 put into the end walls above and below the bottom plate by means of a center punch or the like. The bottom plate is arranged at a distance from the bottom 14 of the housing. The housing part of each bottom plate is formed into a circular boss 20. The two bosses 20 extend toward each other, when the two bottom plates 9 and 10 respectively are arranged in the housing parts. These two housing parts are connected with each other by means of a hinge 21. The boss 20 is, as shown in Fig. 1, formed by pressing the metal of the bottom plate upwardly respectively and the hollow space in the boss is big enough to receive one of the locking balls 13. Two holes 21 are provided in each bottom plate and are located on the longitudinal center line of said plate and at equal distances from the center boss. The rims 22 of these holes are bent in a direction opposite to that in which the center bosses extend.

The sliding plates 10 and 11 have at one end a finger piece 23 which, when the sliding

plate is in position, is adapted to extend through a slot like opening 24 provided in one of the end walls 16 of each housing part. Fig. 1 shows very plainly that the two finger parts extend into the opposite directions. The slide plate is supported and guided by means of tongues 25 formed by punched out and bent over portions of the bottom plates 8 and 9 respectively. The length of the bent over portion of these tongues is such that the sliding plate, when it is put into position and held by said tongues, will abut the outer rim of the collars 22 formed on the bottom plates around the openings or holes 21. On the end opposite to the finger piece 23 a stem 26 is provided on the sliding plate and a spring 27 surrounds this stem and abuts with one of its ends against the sliding plate and with its other end against the adjacent end wall of the housing portion urging the sliding plate to slide in such a direction, that the finger part 23 will extend through the slot 24. Two holes 28 are provided in each sliding plate and these holes are arranged in such a manner that they will be offset in relation to the holes 21 in the bottom plate, when the slide plates are in position shown in Figure 1. The walls or the metal surrounding the holes 28 may be bevelled. The guide pins 12 have, as indicated in Figure 1 a cylindrical body 29 carrying on each end a neck 30 which in turn carries a conical head 31 forming a circular groove with the end surface of the body 29. One of these pins is inserted in each of the holes 21 and the collars 22 formed about these holes serve as guide for the pins. The necks of each pin extend beyond the corresponding guide 22 and through the adjacent hole 28 in the sliding plate so that the sliding plate itself will engage the groove in the pin under the pressure of the spring 27.

The receptacle is operated as follows: In order to open the receptacle it is necessary to press one of the sliding plates inwardly by pressing upon the corresponding finger part 23, because as long as both sliding plates are in the position shown in Figure 1 the receptacle is securely locked by means of the two sliding plates engaging the pins 12. When one of those sliding plates is moved inwardly of the housing against the pressure of the spring 27, that sliding plate will be disengaged from the pins and that part of the housing, in which sliding plate so disengaged is located may be swung open about the hinge with three holes or openings located in certain distances on the longitudinal center line of said blades. The pins 12 and the center boss 20 of the receptacle according to the present invention are arranged in such a manner that razor blades having these openings may be placed into the receptacle whereby then the pins 12 and the central boss 20 extend through the openings in the razor blades holding them in a certain position. When a person wants to use a sharp razor blade he will take the receptacle containing the razor blades holding that portion of the housing on top which is marked "Sharp." He will then press on both ends against the finger parts, but he only can move the upper sliding plate inwardly to release this sliding plate from the pins, so that the upper part of the housing may be opened, because the lock ball 13 of the lower part rests in the socket 18 extending into a center hole 32 provided in the sliding plates and thereby preventing sliding movement of the lower plate. After the receptacle is opened the top blade, which has been resting the longest time, can be removed and can be uesd. After a person is through shaving he wants to put the razor blade away again so that it will be way down on the bottom on that side which is marked "Dull". He therefore holds the receptacle in such a manner that this portion marked dull will be on top and now the two lock balls will change their positions. The lock ball having been so far in position to prevent the movement of the sliding plate 10 will drop through the hole 32 in said plate into the hollow space provided in the center boss 20 of the bottom plate 8 while the lock ball which has been resting so far in the hollow space of the bottom plate 9 will drop into the socket 18 of the receptacle portion 7 thereby preventing sliding movement of the sliding plate 11. The blade can then be laid on the top of the pile, thereby coming on the dull side so that every other razor blade contained in the receptacle will be on top of the last used razor blade when the part marked sharp is opened.

I claim:

1. In a receptacle for safety razor blades two box like halves, means common to said halves for holding safety razor blades in a certain position in said receptacle, and means in each half for engaging said first mentioned means and for preventing accidental movement of said halves relative to each other.

2. In a receptacle for safety razor blades two box like halves, a false bottom in each half adapted to support a plurality of safety razor blades, the two bottoms facing each other, when the receptacle is closed, means extending through both false bottoms for holding the razor blades arranged between said bottoms in a certain position and means for engaging said first mentioned means and for preventing accidental movement of said halves relative to each other.

3. In a receptacle for safety razor blades two box like halves, a false bottom in each half adapted to support a plurality of safety razor blades, the two bottoms facing each other, when the receptacle is closed a hollow center boss on each false bottom, the two

bosses extending toward each other, two holes in each false bottom arranged on the longitudinal center line thereof, adjacent its ends and at equal distances from the center boss, two holding pins extending through the corresponding holes in the false bottoms and means for engaging said pins and for preventing accidental movement of said halves relative to each other.

4. In a receptacle for safety razor blades two box like halves, a false bottom in each half adapted to support a plurality of razor blades, the two false bottoms facing each other when the receptacle is closed, a hollow center boss on each false bottom, the two bosses extending toward each other, two holes in each false bottom arranged on the longitudinal center line thereof adjacent its ends and at equal distances from the center boss, two holding pins, each pin having a head at each end a circular groove separating each head from the pin body, a plate slidably supported in each box like half, holes in said plates permitting the heads of the pins to extend therethrough the rims of said holes being adapted to engage the corresponding grooves in the pins, means for urging said plates into engagement with said pins and means for disengaging said plates and pins from each other.

5. In a receptacle for safety razor blades two box like halves, a false bottom in each half adapted to support a plurality of razor blades, the two false bottoms facing each other, when the receptacle is closed, a hollow center boss on each false bottom, the two bosses extending toward each other, two holes in each false bottom arranged on the longitudinal center line thereof adjacent its ends and at equal distances from the center boss, two holding pins, each pin having a head at each end, a circular groove separating each head from the pin body, a plate slidably supported in each box like half, holes in said plates permitting the heads of the pins to extend therethrough, the rims of said holes being adapted to engage the corresponding grooves in the pins, means for urging said plates into engagement with said pins, means for disengaging said plates and pins from each other, another hole in said plate arranged to register with the hollow space in the center boss, when the plate is in engagement with the pins, a socket in the real bottom of each box like half registering with the hollow space in the corresponding center boss, and a ball for each half adapted to be positioned in the corresponding socket and to extend into the last mentioned hole in the corresponding plate.

In witness whereof I affix my signature.

FREDERICK W. KIRSTEN.