

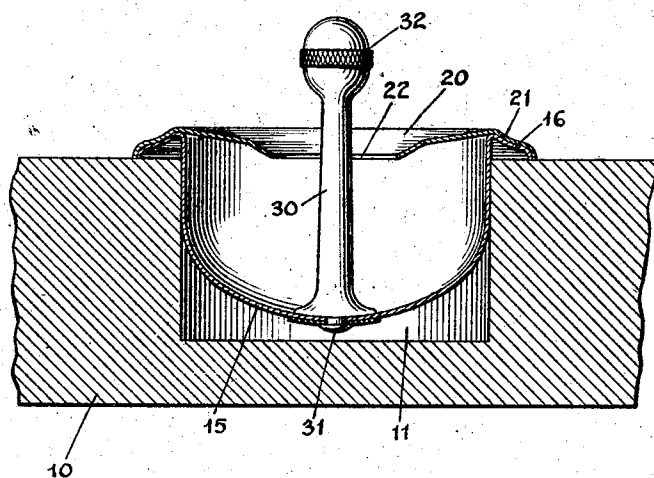
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NEEDLE RETAINER FOR PHONOGRAPHS

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NEEDLE RETAINER FOR PHONOGRAPHS.

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This invention relates to needle retainers for phonographs, and especially to retainers adapted to contain the used needles.

These retainers are usually in the form of cups having a flange at their upper edge so that the cups may be countersunk either in the motor-board or in the block fixed to said board, the flange serving in each case to support said cup. Another type of retainer is

in the form of a cup without a flange, which is set in a block or recessed in a socket in the motor-board. These cups are further usually covered by a suitable cover fitting over the upper open end of the holder, said cover having an opening in its centre to permit the used needles to be passed there-

through into the cup or holder. The cover serves the purpose of distinguishing the cup containing the used needles from the cup containing new needles, and prevents the operator from taking a used needle instead of a new needle. When the cup is full, the needles must be discharged from said cup in some suitable manner. This is usually

done either by removing the cover and then drawing out the needles by the fingers, or else taking out the entire cup and cover and discharging the needles after removing the cover. In the first case, that is, where the

cover is removed and the needles drawn out by means of the fingers, difficulty is found in removing the cover and there is danger of injury by sticking the finger when the operator attempts to take the needles out

of the cups. In the second case, that is, where the entire cup is drawn out, difficulty is experienced in detaching the cup from its socket which it usually fits closely, because the only grip that can be obtained on the cup is that of the finger nails enter-

ing between the flange and the top of the surface with which it is in close engagement. When the cup is not provided with a flange it is very difficult, in some instances impos-

sible, to remove the cup from the socket. The present invention overcomes the disadvantages hereinbefore specified and others, and provides in a simple, efficient and economical manner, means which will facilitate the ready removal of the cup. For this purpose I provide a suitable projection which

can be easily grasped by the operator to permit removal of the cup from its socket or holder and which will in no way interfere with the depositing of the used needles in

the cup during ordinary use. In one embodiment, my invention takes the form of a post fixed to the cup and projecting upwardly through the usual aperture in the cover to a point above said cover convenient for handling.

It is a further object of my invention to provide means, as described above, which shall in no manner detract from, but on the contrary, enhance, the appearance of these needle containing cups which shall be inexpensive and easily applied to ordinary cups, and which are of a simple construction.

Other objects and advantages will appear as the nature of the improvements is better understood, the invention consisting substantially in the novel arrangement and correlation of instrumentalities herein fully described, and illustrated in the accompanying drawings wherein similar reference characters are used to describe corresponding parts throughout the several views, and then finally pointed out and specifically defined and indicated in the appended claims.

The disclosure made the basis of exemplifying the present inventive concept suggests a practical embodiment thereof, but the invention is not to be restricted to the exact details of this disclosure, and the latter, therefore, is to be understood from an illustrative, rather than a restrictive, standpoint.

The inventive idea involved is capable of receiving a variety of mechanical expressions, one of which, for the purposes of illustration, is shown in the accompanying drawing, which is a vertical section, taken substantially centrally through a needle cup having my invention applied thereto.

Referring to the drawing, there is shown a board or block 10 which is usually a block of wood or similar material fixed on the motor-board for the purpose of providing a holder for the needle cups, or it may be the motor-board itself. Within said board is formed a plurality of sockets or depressions 11 into each of which is adapted to fit snugly a needle cup 15. Each cup is provided at its upper edge with a flange 16 adapted to rest upon the upper surface of the board or block 10 and in this manner support the cup. One or more cups 15 are usually provided for the new unused needles, and at least one cup for used needles. In order to prevent the operator from employing a used needle a second time, the cup or cups con-

taining the needles are usually provided with a cover 20 having a flange 21 fitting snugly over the flange 16 of the cup and having a central aperture 22 large enough to permit
5 needles to be passed therethrough but not large enough to permit insertion of the fingers.

The cup 15 has a post 30 which may be fixed by a rivet 31 or in any suitable manner, to the cup, at the bottom thereof, and which extends upwardly through aperture 22 in cover 20 to a point sufficiently above
10 said cover to permit the fingers to grasp the upper end of the post. The post may be provided with a knurled knob 32 on its upper end, if desired, to facilitate handling. It will be apparent that by this means the cup and cover can be readily withdrawn and
15 reinserted in the socket.

20 While the stem or post 30 is a most desirable form of projection, the invention is not limited to such projection, but any other form accomplishing the same functions in a similar manner may be employed.

25 I find that by employing a needle cup which embodies the invention as hereinbefore disclosed and described, I am able to readily remove said needle cup from its holder or recess in the socket for the purpose of removing the used needles without
30 in any wise subjecting the person to injury.

In accordance with the provisions of the patent statutes, I have described the principle of my invention together with the apparatus which I now consider to represent
35 a practical embodiment thereof, but I desire it understood that my invention is not confined to the particular form of apparatus herein shown and described, the same
40 being merely illustrative, and that the invention can be carried out in other ways without departing from the spirit of my invention, and, therefore, I claim broadly the right to employ all equivalent instrumen-

talities coming within the scope of the appended claims, and by means of which the objects of my invention are attained, and the new results accomplished, as herein set forth, as it is obvious that the particular
50 embodiments herein shown and described are only some of many that can be employed to attain these objects and accomplish these results.

Having described my invention, what I claim and desire to secure by Letters Patent is:

1. In a device of the character described a cup, a cover for said cup, said cover being orificed to permit entrance of articles into the cup through said cover, and a handle, small in cross-sectional area relative to said orifice, attached to the inside of the cup and projecting through said orifice.

2. In a device of the character described, a cup, a central upright pillar secured to the inside of the cup and projecting above the rim thereof, a ring-shaped cover resting on the rim of the cup and surrounding at a substantial distance said pillar, whereby said pillar and said cover define an annular ingress opening into said cup.

3. In a device of the character described, a cup, a central, relatively large diameter pillar secured to the bottom of the cup and projecting upwardly therein, the top of said pillar being above the rim of the cup, a ring-shaped cover with depressed center resting upon the rim of the cup and surrounding the pillar, the central orifice of said cover being of a diameter relative to the diameter of said pillar to cause said cover and said pillar to define a large diameter, narrow width annular ingress opening into the cup.

This specification signed this 15th day of June, 1923.

JOSEPH WOLFF.