(No Model.)

W. B. MILLER.

DENTIST'S DISK HOLDER.

No. 381,266. Patented Apr. 17, 1888.

Fig. 1.

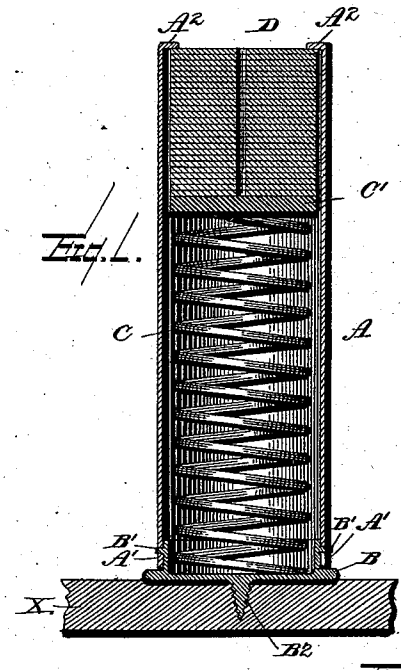


Fig. 2.

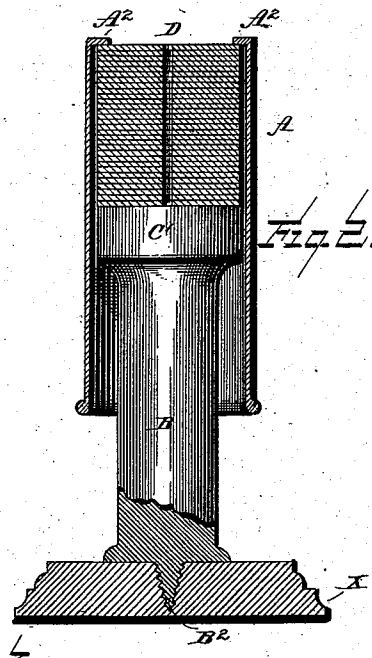


Fig. 3.

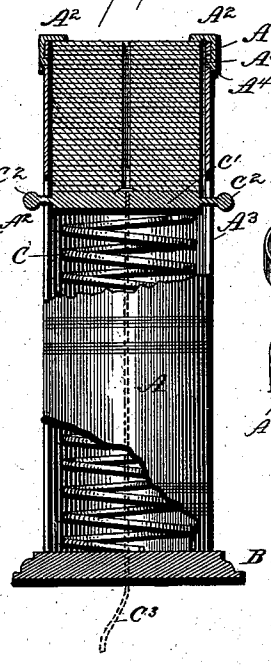


Fig. 4.

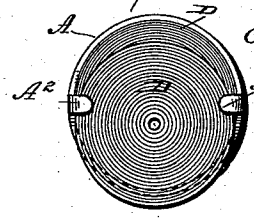
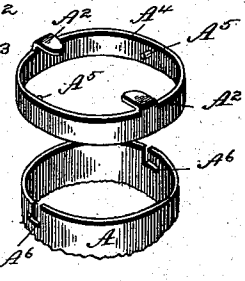


Fig. 5.



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UNITED STATES PATENT OFFICE.

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DENTIST'S DISK-HOLDER.

SPECIFICATION forming part of Letters Patent No. 381,266, dated April 17, 1888.

Application filed August 31, 1887. Serial No. 248,382. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM B. MILLER, a citizen of the United States, residing at Altoona, in the county of Blair, State of Pennsylvania, have invented certain new and useful Improvements in Dentists' Disk-Holders, of which the following is a specification, reference being had therein to the accompanying drawings.

The object of this invention is to provide a device for receiving, retaining, and successively delivering a series of disks made of sand-paper, emery-paper, emery-cloth, and cuttle-fish, such as used by dentists in their operations upon natural teeth, whereby the disks are prevented from becoming scattered, the different grades mixed, and are always ready for use. By my arrangement, also, but one disk can be removed at a time.

Other objects and advantages of the invention will hereinafter appear, and the novel features thereof be particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a central vertical section of a disk-holder constructed in conformity with my invention. Fig. 2 is a modification, and Fig. 3 a similar view of another modification. Fig. 4 is a plan of Fig. 1; and Fig. 5, a perspective of Fig. 3, showing the manner of connecting the keeper with the holder.

Like letters indicate like parts in all the figures.

In carrying out my invention I construct a holder, A, of metal, paper, or wood, and provide the same with a base or bottom, B, made removable therefrom and secured therein by screw-threads, or, as shown in Fig. 1, by means of pins B′ taking into a bayonet-slot, A′, in the holder A. If desired, however, the bottom and holder may be formed integral.

In Fig. 1 I have shown the bottom B provided with a screw, B^2, depending from its center, by which the device, or, in fact, several devices for different grades of disks, may be secured to any ordinary support or bracket, X. The top of the holder A is provided with inwardly-disposed clips or keepers A^2, which prevent the disks from being forced without the same. A coiled spring, C, is seated within the holder A, and upon the same is a following-plate, C′.

The operation of filling the holder with disks is as follows: The device being removed from its support, the bottom B, spring C, and plate C′ are also removed and a series of disks, D, placed through said bottom within the holder A. The parts are then returned to their position, the spring C being compressed, the bottom secured thereon, and the device screwed upon the support. The spring C forces the disks to the top of the holder until the top disk bears against the under surface of the keeper A^2. The under surfaces of the keepers are about the thickness of one disk above the upper surface or edge of the holder A, by which only one disk at a time may be slid from under said keepers, the next disk being pushed up to assume the position lately occupied by the preceding disk just withdrawn.

In Fig. 2 I have shown a modification of my invention, in which modification I obviate the use of the spring C and substitute therefor a standard or bottom, B, adapted to enter the holder A, the weight of the holder being sufficient to drop the same by gravity as each successive disk is removed. The operation of this modification is at once apparent.

In Fig. 3, which is another modification of my invention, I obviate the necessity of the removable bottom B, the support itself performing this function. In this instance, also, I provide the holder A with longitudinal slots A^3, through which project lugs or pins C^2 from the follow-plate C′. By this means disks may be inserted from the top, the follower-plate and spring being compressed by means of said lugs C^2. If desired, a cord, C^3, (see dotted lines, Fig. 3,) may be secured to the plate C′, passing through the bottom B, by which means the plate and spring may be lowered for the reception of the disk. In this modification, in order to provide means whereby the operation of filling and refilling the holder is facilitated, I provide a keeper-ring, A^4, having the before-described clips or keepers A^2, said ring being adapted to receive and snugly fit around the top of the holder A, and is provided with internal pins or lugs, A^5, adapted to take into bayonet-slots A^6, formed in and near the top of said holder.

Although my invention is shown and described as adapted for reception of dentists' disks, it is apparent that it may be used for

other purposes—such as, for instance, holding coin, checks, tickets, poker-chips, stamps, &c.

Having described my invention and its operation, what I claim is—

1. A device for the purpose specified, comprising a cylindrical body portion provided with clips at its upper end, a removable bottom, a spring seated therein, and a follower-plate mounted on the spring, substantially as specified.

2. In combination with a support, a disk-holding device consisting of a bottom removably secured to said support, and a holder mounted on the bottom and provided with clips at its upper end, substantially as specified.

3. The combination, with the base X, of the bottom B, secured thereto by means of the screw B^2, provided with the lugs B′, the holder A, having the slots A′, mounted on said bottom and adapted to receive the lugs B, and provided with the clips A^2, and of the spring C and follower-plate C′, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM B. MILLER.

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