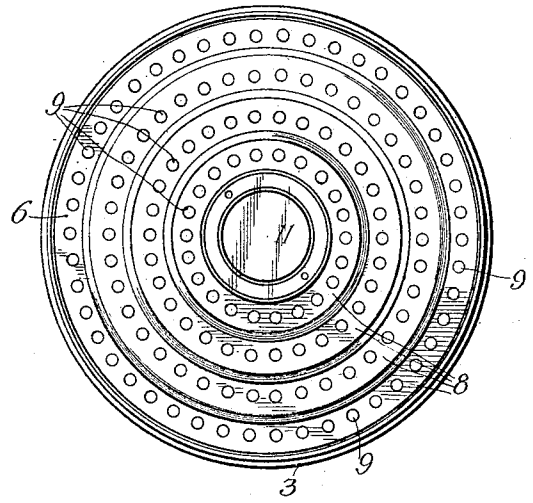
F. W. MILLER.

BUR BLOCK.

APPLICATION FILED NOV. 25, 1914.

1,220,256. Patented Mar. 27, 1917.

Fig. 2.



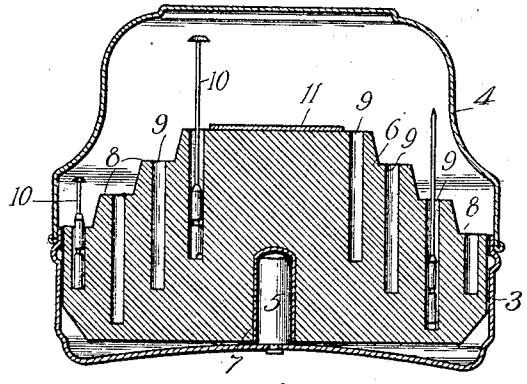


Fig. 1.

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UNITED STATES PATENT OFFICE.

FREDERICK W. MILLER, OF INDIANAPOLIS, INDIANA, ASSIGNOR TO RANSOM & RANDOLPH CO., OF TOLEDO, OHIO, A CORPORATION OF OHIO.

BUR-BLOCK.

1,220,256. Specification of Letters Patent. Patented Mar. 27, 1917.

Original application filed May 23, 1913, Serial No. 769,359. Divided and this application filed November 25, 1914. Serial No. 873,894.

To all whom it may concern:

Be it known that I, FREDERICK W. MILLER, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented a certain new and useful Improvement in Bur-Blocks, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to bur blocks, and the specific embodiment of my invention herein shown and described is particularly adapted for use in shipping, holding and displaying engine burs such as are commonly used by dentists.

The device herein shown comprises a receptacle consisting of a circular lower member or base part, and a cover therefor, the said base part being provided with a centrally-disposed post or stud. Disposed in the said base part and fitting snugly therein is a block provided with a central opening into which the before-mentioned post projects. The depth of the opening in the block is slightly less than the height of the post which projects therein, in order that the lower portion of the block may clear the bottom of the receptacle, thereby permitting the block to be readily turned within the receptacle. The block is provided with a plurality of annular steps or ledges, there being a plurality of openings drilled in each of the ledges. Each of these openings is designed to receive an engine bur.

The device herein shown and described is also disclosed in my co-pending application, Serial No. 769,359, which has resulted in Patent No. 1,121,934 and of which the present application is divisional. The claims forming a part of my present application are directed to the construction and combination of parts whereby the bur block and its associated cover constitute an excellent shipping and packing case, in which the burs may be transported without danger of the same being displaced or injured *en route.*

The particular advantages of the construction herein described and subsequently claimed, are as follows:

The bottom of the base part of the bur block receptacle is upwardly dished so that in spite of irregularities in the surface of a desk or table upon which the base of the receptacle is placed, the same will be adequately supported at or near its periphery, thereby preventing it from turning readily when the rotatable block is turned. The bearing of the wooden block, although of inexpensive construction, provides a sufficiently rigid support for the block, at the same time permitting the block to turn very easily within the receptacle. The annular ledges or steps in the rotatable block serve to display all of the burs and make it possible to grasp any desired bur.

The receptacle cover is so shaped that the bur block filled with a gross or any other number of burs can be shipped in a light carton without danger of the individual burs falling out of the holes provided in the rotatable block. It is thus possible to ship a full gross of burs all mounted in place in the bur block with the assurance that they will arrive at their destination in place as originally packed. The upper and lower sections of the receptacle are preferably nickel-plated, or otherwise highly polished. It is of course desirable from the standpoint of the dentist to keep this receptacle highly polished in order that it may present an attractive appearance. When it is desirable to polish the receptacle the rotatable block may be readily lifted out of the base part of the receptacle, thus enabling one to wash and polish the receptacle without danger of wetting the wooden block, thereby causing it to swell, and without danger of daubing the rotatable block or burs with the polish which may be employed.

In the drawings illustrating my invention:

Figure 1 is a cross-sectional view taken through the device with the cover in place, showing a number of burs disposed in the holes in the rotatable block; and

Fig. 2 is a plan view with the cover removed.

Similar reference numerals refer to similar parts throughout the several views.

In the drawings, 3 represents the base part of the receptacle, the bottom thereof being upwardly dished, as illustrated. The receptacle cover is shown at 4. The base part 3 is provided with a centrally-located cylindrical post 5, which projects into a central opening in a circular wooden block 6 and supports the said block. The opening

in the block 6 is preferably provided with a metallic lining 7 in order to do away with the excess wearing on the parts which would otherwise result. It should be noted that the bottom of the block 6 is spaced slightly from the bottom of the base part 3. The said block being supported entirely by the central post 5, may be readily rotated within the receptacle base part 3. Thus any bur carried by the block may be readily removed from the same.

The block 6 is provided with a plurality of annular steps or ledges 8, in each of which there is drilled a plurality of holes 9. These holes 9 are intended to receive engine burs 10, as clearly shown in Fig. 1. A suitable name plate 11 carried by the top of the block adds materially to the general appearance of the same.

An important advantage which the construction here shown has, is that after a dentist has been supplied with the complete block, including the receptacle, he can subsequently buy full grosses of burs mounted in the wooden block only. Thus the rotatable block, filled with burs, may be shipped to a dentist who can replace the old block with a new one filled with burs. Since the wooden blocks themselves are inexpensive, they provide a convenient means of packing a gross of burs to be sent to a dentist already supplied with the receptacle.

As has previously been pointed out cover 4 is so shaped that the burs may be shipped in a light carton without danger of the individual burs falling out of the holes provided in the block. This result is accomplished by providing the cover 4 with annular steps or shoulders as illustrated in the drawings. The steps or shoulders need not necessarily be as pronounced as the steps found on the block. It will be seen that by providing the cover with annular steps or shoulders, as set forth, the distance from the top of each bur to that portion of the cover directly above it is made less than that portion of the bur embedded in the block. Consequently, when the several burs are in their proper holes with the cover in place, the burs may be shipped without danger of the burs being displaced, the block and cover thus constituting an ideal packing and shipping case. Attention is directed to the fact that if any one of the shorter burs should be placed in the wrong opening in the block, *i. e.*, in a hole in one of the upper steps of the block, the said bur may readily be removed by placing the cover in position and inverting the case. The bur referred to will thereupon fall out of the block and may be replaced in its proper opening in the block.

The device offers an advantage to the manufacturer in that a dentist already supplied with the receptacle will be likely to order a new block containing a full gross of burs since the dentist will appreciate the convenience of being able to slip the new block into the receptacle which he already has.

What I claim and desire to secure by Letters Patent of the United States is:

1. A packing and shipping case for elongated articles, comprising a circular block provided with a plurality of steps, openings in each of said steps arranged to receive the articles to be packed and shipped, and a substantially cone shaped cover arranged to be fitted over said block, and adapted to prevent the said articles from being displaced from their respective openings in the block when the cover is positioned over the block.

2. A packing and shipping case for burs and similar articles, comprising a circular block, a plurality of annular steps formed on said block, a plurality of vertical openings in each step, each adapted to have one of the articles loosely disposed therein, and a substantially cone shaped cover arranged to be fitted over said block, said cover being provided with annular steps arranged to prevent the several articles from being displaced from their respective openings when the cover is positioned over the block.

3. A shipping case for burs and similar elongated articles, comprising in combination a circular receptacle, a block rotatably disposed in said receptacle provided with a plurality of annular steps, a plurality of vertical openings in each step arranged to have one of the articles loosely disposed therein, and a substantially cone shaped cover provided with a plurality of annular steps adapted to prevent displacement of the several articles from their respective openings in the block when the cover is in position.

In witness whereof, I hereunto subscribe my name this 21st day of November, A. D. 1914.

FREDERICK W. MILLER.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."