Feb. 27, 1923. 1,446,921.

C. F. MONTAG.

BUR STAND.

FILED SEPT. 10, 1921.

Fig. 1.

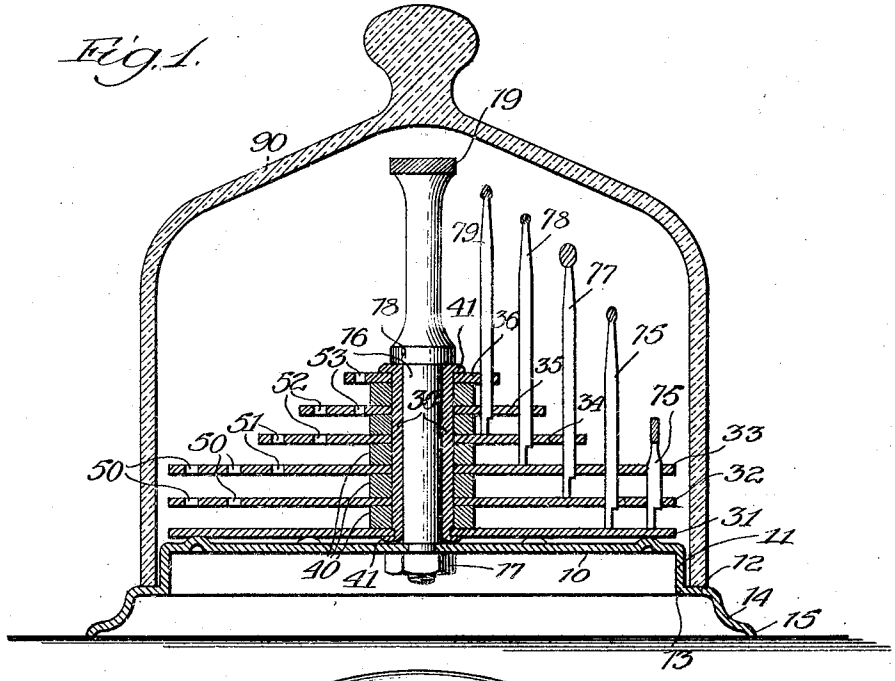
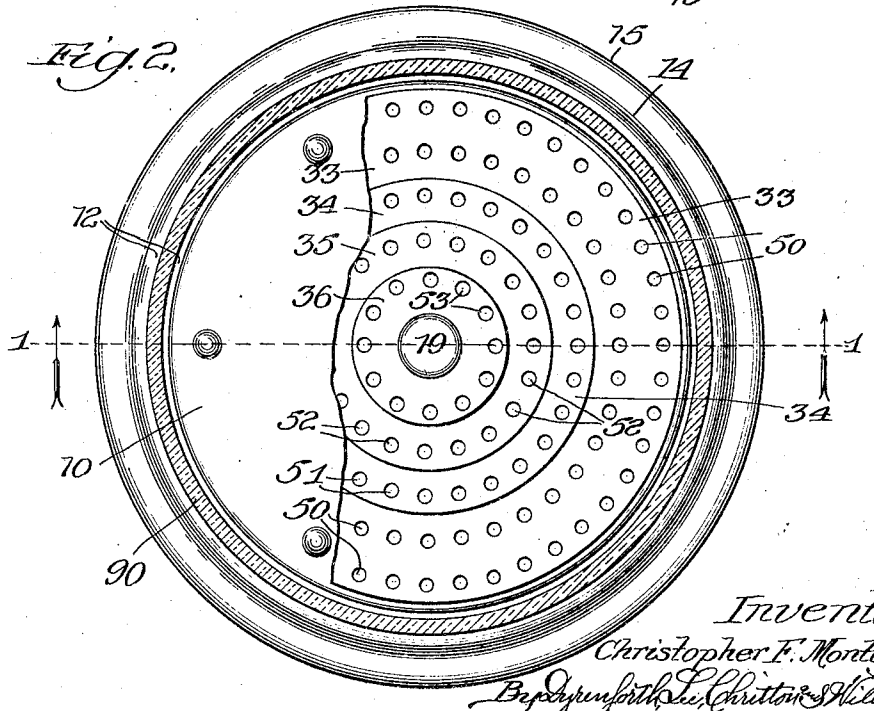


Fig. 2.



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UNITED STATES PATENT OFFICE.

CHRISTOPHER F. MONTAG, OF BLUE ISLAND, ILLINOIS, ASSIGNOR TO BLUE ISLAND SPECIALTY COMPANY, OF BLUE ISLAND, ILLINOIS, A CORPORATION OF ILLINOIS.

BUR STAND.

Application filed September 10, 1921. Serial No. 499,668.

To all whom it may concern:

Be it known that I, CHRISTOPHER F. MONTAG, a citizen of the United States, residing at 282 Western Avenue, Blue Island, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Bur Stands, of which the following is a specification.

This invention relates to improvements in bur-stands; for example, such as are used by dentists for holding the burs or drills used in their work.

Such bur-stands, as heretofore made, are ordinarily provided with holes or cavities closed at the bottom, for holding or supporting the burs. Such holes or cavities are very objectionable, owing to the fact that they form receptacles for and retain filings from the burs and other dust and dirt. In this way they soon become unsanitary, and often interfere with the proper support of the bur. Since such holes or cavities become filled or partially filled with dirt, they also prevent the burs from coming to the bottom thereof, so that it is difficult to know the exact length of a bur by observing the projecting part.

In my improved bur-stand the objections to stands as heretofore ordinarily made, and as noted above, are done away with. My stand is so constructed that it can be easily and cheaply made. It is also neat in appearance, and supports the burs without any holes or cavities closed at the bottom, so that it can be easily cleaned and kept in a sanitary condition. All of the burs in my improved stand are always supported at the same length so that the exact length of a bur can always be noted by observing it in position in the bur-stand.

The above referred to features and advantages of my bur-stand and others will appear more fully as I proceed with my specification.

A form of device embodying the features of my invention is shown in the accompanying drawings in which Fig. 1 is a vertical sectional view taken as indicated by the line 1 of Fig. 2 and Fig. 2 is a broken plan view with the glass cover shown in section.

As shown in the drawings, the bur-stand comprises a circular base part pressed or suitably formed from sheet metal or other suitable material. This base part includes a circular disc 10 having an outer downwardly turned flange 11. At the lower edge of the flange 11 is provided a horizontal outwardly turned flange 12; the flanges 11 and 12 forming a shoulder 13. At the outer edge of the flange 11 the metal is curved downwardly and outwardly as indicated by 14 to form a circular base ring 15 to support the base part.

From the center of the disc 10 a base 16 extends upwardly. The base 16 is held in position by end 17 below the disc 10. At about half its height the base 16 is provided with a shoulder 18, and the upper end is knurled or milled as indicated by 19 to afford a suitable grasp for the fingers.

Rotatably mounted on the base 16 between the shoulder 18 and the disc 10 is a sleeve 30. Mounted on the sleeve 30 is a series of six discs indicated by 31, 32, 33, 34, 35 and 36 respectively commencing at the bottom. The bottom three discs are all of the same size, and nearly as large as the disc 10. The discs 34, 35 and 36 decrease in size as shown. The discs are equally spaced on the sleeve 30 by series of washers 40 placed between each adjacent two. The ends of the sleeve 30 are turned outwardly or riveted as indicated by 41 in order to clamp the discs and washer together and hold them all tightly on the sleeve. It is obvious that by this construction all the discs, washers and sleeve can be rotated together on the base 16.

The discs 32 and 33 are provided with two concentric rows of holes 50 for holding burs. The discs 33 and 34 are likewise provided with a row of holes 51, and similarly the discs 34 and 35 are provided with a row of holes 52 and the discs 35 and 36 with a row of holes 53. The holes 6 arranged in each pair of discs are in vertical alignment so that burs placed therein will be held vertically. It will be noted that under each such row of holes is a portion of a disc which is not perforated to serve as a support for the bottom ends of the burs. For example, the disc 31 supports the burs in the holes 50 such as indicated by 75. Likewise the disc 32 inside of the holes 50 acts as a support for the burs 77 standing in the holes 51. Likewise, disc 33 supports the bottom ends of the burs 78 in the holes 52, and the disc 34 supports the burs 79 in the holes 53.

A glass bell shaped cover 90 is provided as shown adapted to rest on the flange 12.

It will be clearly seen that by this con-

struction with discs to support the burs, that the ends of none rest in any holes or cavities. By such construction, filings from the burs themselves or any other dust or dirt falls onto the flat discs from which it can be easily removed by merely blowing sideways through the bur-stand or tilting the same slightly.

While I have shown and described certain embodiments of my invention, it is to be understood that it is capable of many modifications. Changes, therefore, in the construction and arrangement may be made without departing from the spirit and scope of the invention as disclosed in the appended claims, in which it is my intention to claim all novelty inherent in my invention as broadly as possible in view of the prior art.

What I claim as new and desire to secure by Letters Patent;

1. A bur-stand comprising a base, a support projecting upwardly from said base, and a plurality of horizontally arranged spaced-apart plates mounted on said support and provided with holes adapted to receive and support burs, whereby said stand may be readily cleaned by a blast of air, or the stand and burs sterilized by dipping the stand with the burs in place in a sterilizing solution.

2. A bur-stand comprising a circular base, a central post mounted on said base, a sleeve rotatably mounted on said post, and a plurality of horizontally arranged spaced-apart plates carried by said sleeve, said plates being provided with holes adapted to receive and support burs, whereby said stand may be readily cleaned by a blast of air, or the stand and burs sterilized by dipping the stand with the burs in place in a sterilizing solution.

3. A bur-stand comprising a base, a support projecting upwardly from said base, a sleeve rotatably mounted on said support and a plurality of horizontally arranged spaced-apart perforated plates carried by said sleeves, the perforations in a plurality of said plates being in vertical alinement and adapted to receive burs, and a plate arranged below said perforations to present an imperforate surface to the lower ends of burs lying within said perforations whereby to retain said burs in place.

4. A bur-stand comprising a base, a support rising from said base, a sleeve rotatably mounted on said support, a plurality of spaced-apart plates carried by said sleeve and having bur-receiving perforations some of which aline vertically with the perforations in an adjacent plate and others of which are in staggered relation thereto.

In testimony whereof I have hereunto set my hand and seal this 7th day of September, 1921.

CHRISTOPHER F. MONTAG. [L. S.]