No. 823,167. PATENTED JUNE 12, 1906.

W. F. GREEN.

DENTAL DISK SHIELD.

APPLICATION FILED MAY 31, 1905.

Fig. 1.

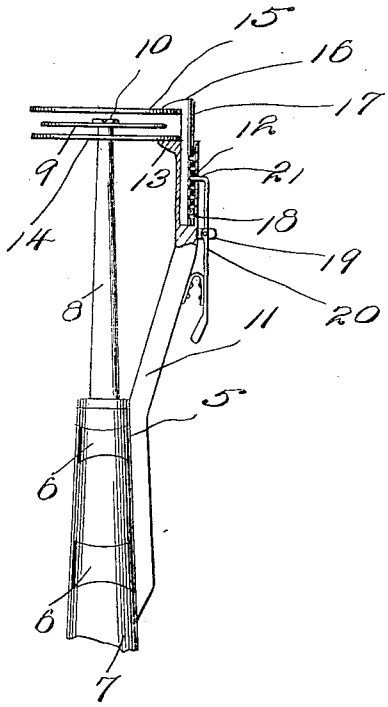


Fig. 2.

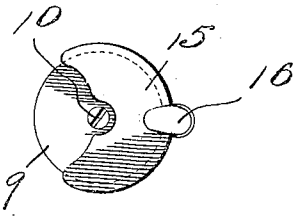
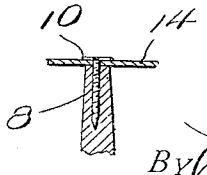


Fig. 3.



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DENTAL-DISK SHIELD.

No. 823,167. Specification of Letters Patent. Patented June 12, 1906.

Application filed May 31, 1905. Serial No. 263,089.

To all whom it may concern:

Be it known that I, WILLIAM F. GREEN, a citizen of the United States, residing at Modesto, in the county of Stanislaus, State of California, have invented certain new and useful Improvements in Dental-Disk Shields; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to dental instruments, and more particularly to disk-holders such as are employed for holding sand-paper disks, saws, grinding-stones, and other similar articles used in dental work, the object of the invention being to provide a shield which will cover a portion of the disk when in use, which may be adjusted to accommodate disks of different thicknesses, and which will be readily adjustable to permit of application and removal of disks, and, furthermore, may be readily attached to different handpieces.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a view, partially in side elevation and partially in section, illustrating the shield in use. Fig. 2 is a detail view of the removable member of the shield. Fig. 3 is an end view of the structure shown in Fig. 1.

Referring now to the drawings, the present shield comprises a ferrule or supporting collar 5, which, as illustrated, may be partly cut away and split longitudinally through the cut-away portion to form clamping-fingers 6, the material of the ferrule having a spring quality, so that the fingers will tightly clasp the end of the handpiece 7, which carries the spindle 8, to which the disk 9 is held by means of the usual screw 10.

From the ferrule or collar 5 there extends a supporting-arm 11, the outer end portion of which is parallel with the axis of the handpiece 7 and is tubular, as illustrated, this tubular portion having a longitudinal series of perforations 12 therein for a purpose to be presently explained. At the free end of the arm 11 is a lug 13, which projects in the direction of the spindle 8, and upon this lug is secured a segmental plate 14 of somewhat more than an arc of one hundred and eighty degrees, so that it covers somewhat more than one-half of the lower face of the disk 9, the plate 14 having a radius slightly greater than that of the disk.

A second guard-plate 15 is provided having the same shape as the plate 14 and having the same dimensions, both of these plates being cut away at their central portions to correspond to the spindle 8 and the screw 10, respectively. The plate 15 is secured to the under face of the laterally-extending head 16 of a stem 17, which is adapted to fit snugly and slidably in the tubular portion of the arm 11, the stem 17 having a longitudinal series of notches 18, so that a ratchet is provided.

The arm 11 is provided with ears 19, between which is pivoted a thumb-lever 20, having a laterally-turned end 21, which engages the perforation 12 and is movable therein into and out of engagement with the ratchet-stem 17. By engaging the latch-lever 20 in different notches 18 the stem is held at different points of its sliding adjustment, so that the plate 15 is held in different spaced relations to the plate 14. When the lever releases the stem, the latter may be entirely withdrawn from the arm 11. By forming the plate 15 thus adjustable toward and away from the plate 14, while maintaining its parallel relation, provision is made for accommodating disks of different thicknesses and characters for different specific uses.

It will be noted that the guard-plates 14 and 15 are adjustable bodily toward and away from each other, as distinguished from a construction in which the plates are hinged.

What is claimed is—

1. A disk-shield comprising spaced plates adapted to receive a disk between them with the disk partly exposed, said plates being bodily movable toward and away from each other, and means for attaching the shield to a part of a dental engine.

2. A disk-shield comprising spaced plates and means for holding the plates in different spaced relations, said means comprising a stem carried by one of the plates, a socket-piece carried by the other plate in which the stem is slidably received and means for holding the stem at different points of the sliding movement in the socket-piece.

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

WILLIAM F. GREEN.

Witnesses:

MAE GREEN JONES,

JOHN H. WARE.