F. C. ROWE.

DENTAL MOTOR HOOD.

PPLICATION FILED MAY 10, 1916.

1,212,564. Patented Jan. 16, 1917.

Fig. 1

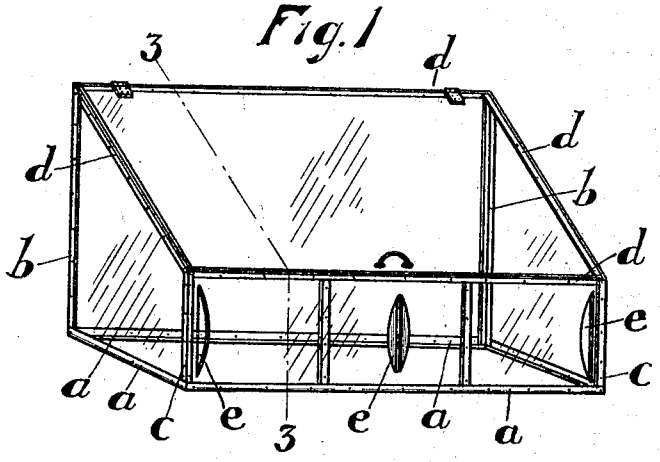


Fig. 2

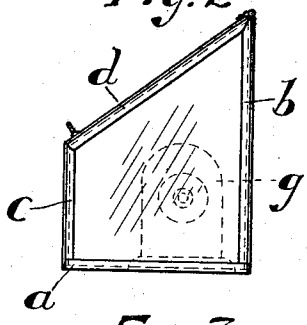
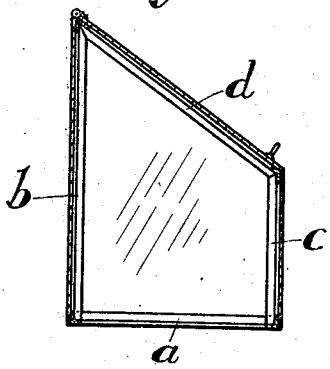


Fig. 3



WITNESS

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DENTAL-MOTOR HOOD.

1,212,564. Specification of Letters Patent. Patented Jan. 16, 1917.

Application filed May 10, 1916. Serial No. 96,729.

To all whom it may concern:

Be it known that I, FORREST C. ROWE, a citizen of the United States, residing at Concord, in the county of Merrimack, in the State of New Hampshire, have invented a certain new and useful Improvement in Dental-Motor Hoods, of which the following is a specification, reference being had to the accompanying drawings.

The object of this invention is to provide a transparent protective hood, or housing, for the motors used by dentists in the operation of grinding and finishing dental plates. In the said operation the mills, cutters, drills and the like abrading tools, are run at high speed and, in order to keep them, (as well as the plates) reasonably cool, it is a common practice to play a stream of water, or soda water, on the cutter and plate and, as an irremediable result, the cooling liquid is thrown a considerable distance, in every direction, drenching and disfiguring everything within its reach, including the operator of the machine.

My present invention aims to overcome, or rather to prevent, this objectionable result by providing a transparent protective hood for the grinding tool, provision being also made whereby the hands of the operator may be readily entered in the hood through suitable openings; the construction and operation of the device being such that the operator may view the work and manipulate the tool as readily as if no protective device was being used.

A simple form of my invention is illustrated in the annexed drawings, in which—

Figure 1 is a perspective view of a hood embodying my present improvements. Fig. 2 is an end elevation of the same, and Fig. 3 is a transverse sectional view taken on the line 3—3 of Fig. 1.

Briefly described my invention as here illustrated, consists of an angular frame-work having a hinged top of glass and side walls which are, preferably, of celluloid, one of said sides being provided with slits or openings that are adapted to receive the hands and arms of the operator. More specifically described, the said frame-work consists of a rectangular bottom frame *a* corner uprights *b*—*c* and a top frame *d* which latter is hinged to the uprights *b*; the said top being, preferably, pitched downward (toward the side where the operator stands or sits, as the case may be) so that the operator may the better view the work that is being performed within the hood. The top frame is glazed with glass and the back and ends may also be set with glass but the front wall of the hood I prefer to set with celluloid which I provide with slits or openings *e* that are of such size and shape that the hands and wrists of the operator may be thrust therethrough. The celluloid, being flexible and yielding, in seeking to spring back to its normal, plate, form, will then clasp the operator's wrists firmly enough to practically close the opening and thus prevent the cooling liquid from spraying out around the wrists.

The motor may be located within the hood, at one end thereof, as indicated by the dotted outlines *g* in Fig. 2 of the drawings. The hood may be of any desired shape and size, but I have found, by practical and continued use, that the rectangular, inclined top, form is specially suited to the requirements of the case.

Having thus described my invention, I claim as new and wish to secure by Letters Patent:—

A protective, hood for dental engines, comprising a transparent housing having one of its walls made of yielding material, as celluloid, and having armholes in said yielding material.

FORREST C. ROWE.

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