

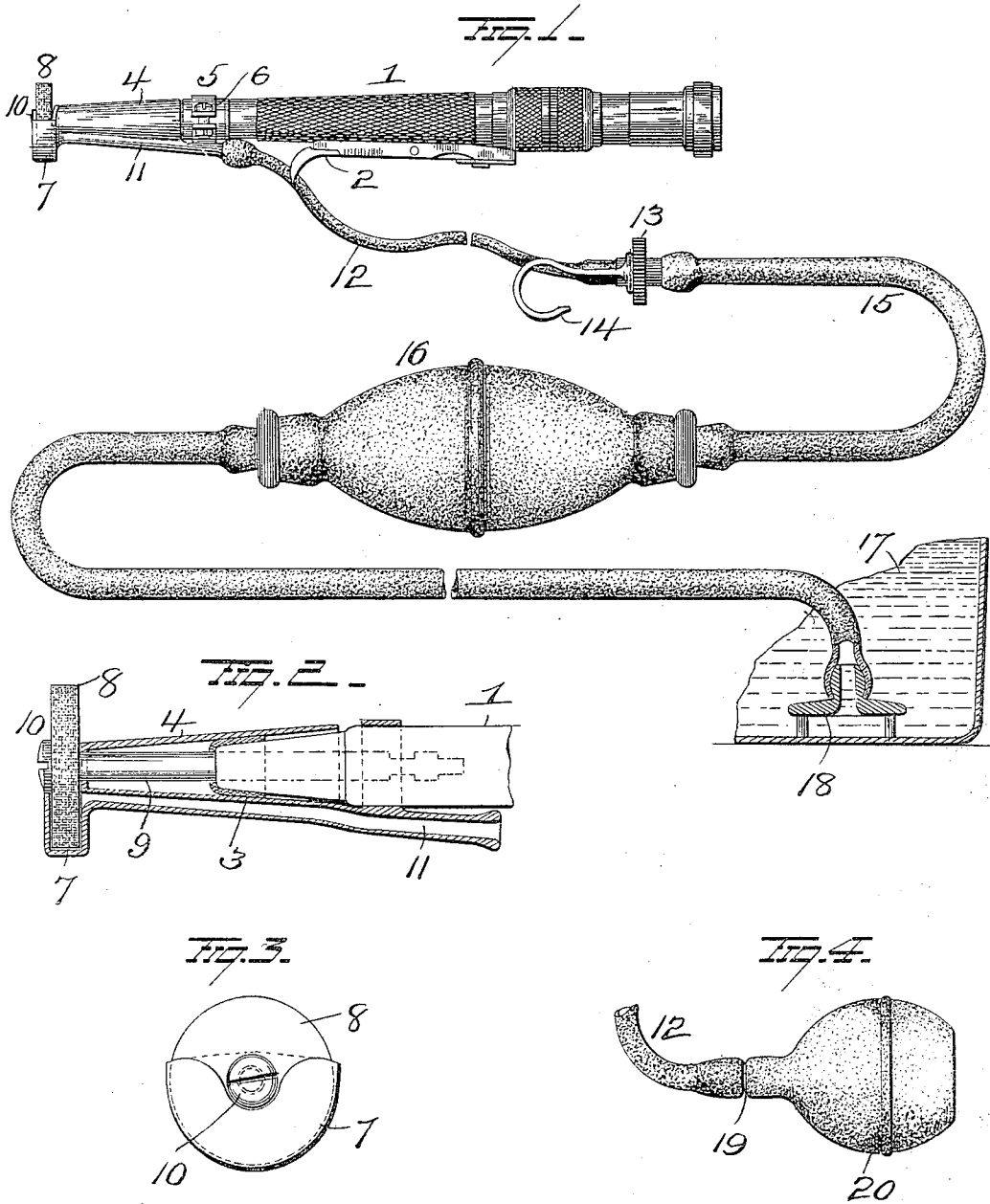
No. 816,685.

PATENTED APR. 3, 1906.

C. A. SEVIER.

SHIELD AND MOISTENER FOR DENTAL TOOLS.

APPLICATION FILED JUNE 29, 1904.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

CHARLES ANDERSON SEVIER, OF JACKSON, TENNESSEE.

## SHIELD AND MOISTENER FOR DENTAL TOOLS.

No. 816,685.

Specification of Letters Patent.

Patented April 3, 1906.

Application filed June 29, 1904. Serial No. 214,682.

*To all whom it may concern:*

Be it known that I, CHARLES ANDERSON SEVIER, a resident of Jackson, in the county of Madison and State of Tennessee, have invented certain new and useful Improvements in Shields and Moisteners for Dental Tools; 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.

My invention relates to an improved shield and moistener for dental tools, the object of the invention being to provide an improved device or attachment of this character which can be easily and quickly attached to any approved form of dental grinding or polishing tool and prevent contact of the grinding or polishing wheel, except at its grinding edge, thereby preventing accidental injury to the patient and also provide improved means for supplying moisture to the tool to prevent overheating and consequent pain.

With this and other objects in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a perspective view illustrating my improvements. Fig. 2 is an enlarged view in longitudinal section of the attachment proper. Fig. 3 is an end view thereof, and Fig. 4 is a view of a modified form of water-supply device.

1 represents the hand-grip or nozzle of any approved form of dental engine having a lever 2 or other form of device for operating the clutch connection for connecting the engine drive-shaft with the tool to be turned.

On one end of hand-grip or nozzle 1 is secured my improved attachment, which comprises a casing 4 of general conical shape, having a split clamping-ring 5 at its end around nozzle 1 and adapted to be securely clamped thereon by a set-screw 6. A semi-circular shield 7 is secured to or made integral with the outer end of casing 4 and partially incloses an emery or other grinding or polishing wheel 8, secured upon a spindle 9 by a screw 10, said spindle mounted to turn in casing 4 and suitably shaped at its end to receive the clutch in nozzle 1, and a perforated rubber cap 3 is placed on the end of

nozzle 1 to prevent the entrance of moisture therein.

To remove the grinding-wheel 8 and spindle 9 from the casing 4 and shield 7, screw 10 is first removed, when the spindle can be drawn through casing 4 and the grinding-wheel 8 dropped out through the open bottom of the shield 7.

Secured along the casing 4 and communicating with an opening in shield 7 is a metal tube 11, having an enlarged end to receive a small hose or tube 12, preferably of rubber or other flexible material. This hose or tube 11 is connected to one side of a hose-coupling 13, having a hook 14 thereto to be supported in a buttonhole or other portion of the patient's garment. The opposite side of coupling 13 is connected with a hose 15, preferably larger than hose 11 and having a pressure-bulb between its ends. The free end of hose 15 is located in a pan or other reservoir 17 and held submerged in the water therein by a weight 18.

The operation of my improvements is as follows: As the dentist uses the grinding-wheel on the patient's teeth the patient grasps bulb 16 and forces water to the tool as fast as may be necessary to prevent overheating, and the hook 14 is provided to maintain the hose in proper position and relieve the patient and dentist of the necessity of looking out for the same after the grinding operation begins.

If desired, instead of employing the water-reservoir and bulb 16 I might use a suitable syringe 20, as shown in Fig. 4, having a discharge-tube 19 to fit into hose 12.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination with a dental grinding-tool, of a shield partly embracing the edge and embracing the front and rear faces of said tool, and a pipe for discharging water against a face of the grinding-tool within the shield.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

CHAS. ANDERSON SEVIER.

Witnesses:

J. W. VANDEN,  
THOS. I. TAYLOR.