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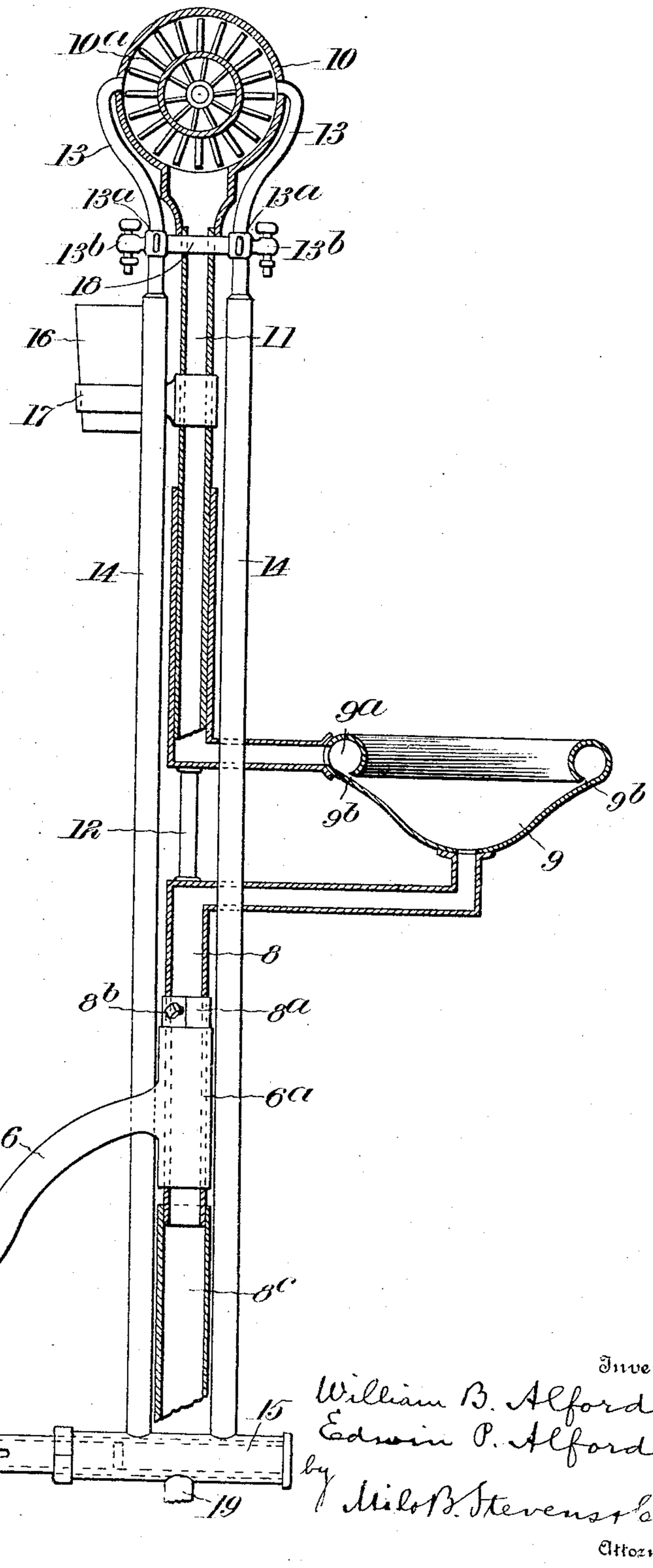
W. B. & E. P. ALFORD.

SUPPORT FOR DENTAL ENGINES AND SPITTOONS.

APPLICATION FILED FEB. 7, 1903.

NO MODEL.



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UNITED STATES PATENT OFFICE.

WILLIAM BASKIN ALFORD AND EDWIN PLUMER ALFORD, OF SUMTER, SOUTH CAROLINA.

SUPPORT FOR DENTAL ENGINES AND SPITTOONS.

SPECIFICATION forming part of Letters Patent No. 771,961, dated October 11, 1904.

Application filed February 7, 1903. Serial No. 142,382. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM BASKIN ALFORD and EDWIN PLUMER ALFORD, citizens of the United States, residing at Sumter, in the county of Sumter and State of South Carolina, have invented certain new and useful Improvements in Supports for Dental Engines and Spittoons; and we 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, reference being had to the accompanying drawing, and to the figures of reference marked thereon, which forms a part of this specification.

This invention relates to combined dental water-motors and spittoons and supporting-standards therefor, and has for its object to provide a construction in which the supporting-standard for the water-motor will be formed by one of the water-pipes thereof.

A further object is to conduct the water from the motor to the spittoon, so that the same water is used for both.

A further object is to provide a structure supported on the chair carrying a motor, a spittoon, a drinking-glass, and cocks for supplying water thereto, and containing places for the attachment and convenient manipulation of various other devices used in dental operations, the intent being to support in a convenient position and advantageous manner most of the appliances needed by a dentist in connection with the chair.

The invention is illustrated in the accompanying drawing, which is an elevation of the apparatus with parts in section.

Referring specifically to the drawing, 6 indicates a supporting-arm for the apparatus, and it is bolted to the bottom of the chair, as indicated at 7, and projects therefrom conveniently from the left side of the chair. At the end of this arm is a sleeve 6^a, through which a waste-pipe 8 extends, leading from the spittoon 9. The waste-pipe supports the spittoon and the motor and its connected parts and is free to turn in the sleeve. It is supported by a collar 8^a, adjustable as to height by set-screw 8^b. The motor is indicated at 10, and its waste-pipe 11 leads to a tubular rim 9^a of the spittoon, and the waste water from the pipe escapes through a slit 9^b, produced between the edge of the rim and the bottom of the spittoon. The waste-pipes 8 and 11 are bent to project horizontally to support the spittoon at a proper position to be accessible to the occupant of the chair. The waste-pipes are of metal and form, in connection with a stay-rod 12, a standard which supports the motor, the spittoon, and the various other parts and as such may be turned in the sleeve of the supporting-arm to bring the device in proper and suitable position for use as occasion demands.

The motor includes a reversible wheel 10^a, driven by a jet from either of the pipes 13, which are connected to rubber supply-pipes 14, leading to a valve-casing 15 at or about the floor. The flexibility of these pipes permits the necessary turning movement of the supporting-standard. The pipes 13 are fitted with stop-cocks 13^a and also with bib-cocks 13^b, one of which will supply water to a glass 16, held in a bracket 17, clamped on the waste-pipe 11. The other bib-cock may be used to supply water to a hose and syringe for cleaning cavities and the like. The pipes 13 are joined and held in position by a cross-bar 18. A water-supply pipe is indicated at 19, and between it and the supply-pipes 14 is a valve (indicated at 15) to control the supply of water to said pipes 14.

By the construction indicated a standard is provided which supports a motor and its supply and waste pipes, a spittoon and its waste-pipe, and also provides means for water-supply to a syringe and a drinking-glass—in short, provides means for supplying water for all the dental operations for which it is needed. The waste-pipe forms a support which permits the apparatus to be turned into various positions, according to the needs of the operations.

The motor and the other parts supported by the arm follow all the movements of the chair and adjustments of the chair and is adapted for a combination not only with a dental chair, but also with surgical chairs and chairs

of like character wherein a supply of water is desirable or necessary, and the scope of the invention is not limited to the present embodiment further than is indicated in the appended claim.

The waste-pipe 8 is connected below the supporting-arm to a flexible section 8^c, permitting the necessary adjustments of the chair.

What we claim as new, and desire to secure by Letters Patent, is—

The combination with a tubular rotatable standard bent to form upper and lower lateral extensions between its ends, of a spittoon connected at the bottom to the lower extension forming a waste-pipe from the spittoon, and having a tubular rim fixed to the upper extension forming a supply-pipe to the spittoon, a water-motor supported on the top of the standard and discharging its waste water therein, and a supply-pipe to the motor.

In testimony whereof we affix our signatures in presence of two witnesses.

WILLIAM BASKIN ALFORD.
EDWIN PLUMER ALFORD.

Witnesses:
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