

H. D. BULTMAN.
VULCANIZER.
APPLICATION FILED JUNE 6, 1908.

935,295.

Patented Sept. 28, 1909.

Fig. 1.

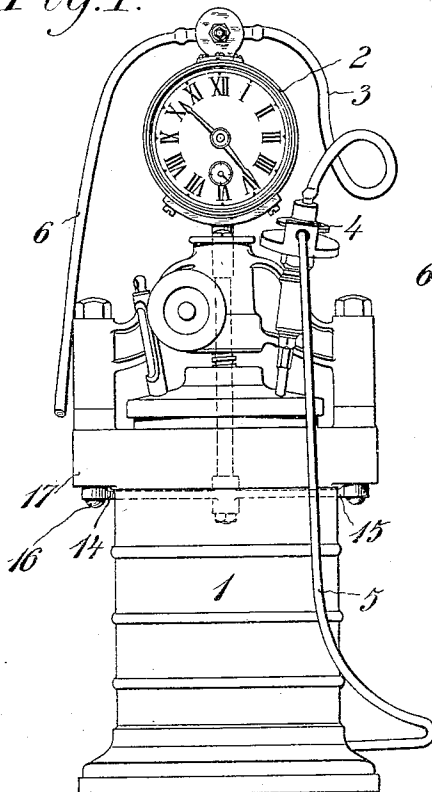


Fig. 2.

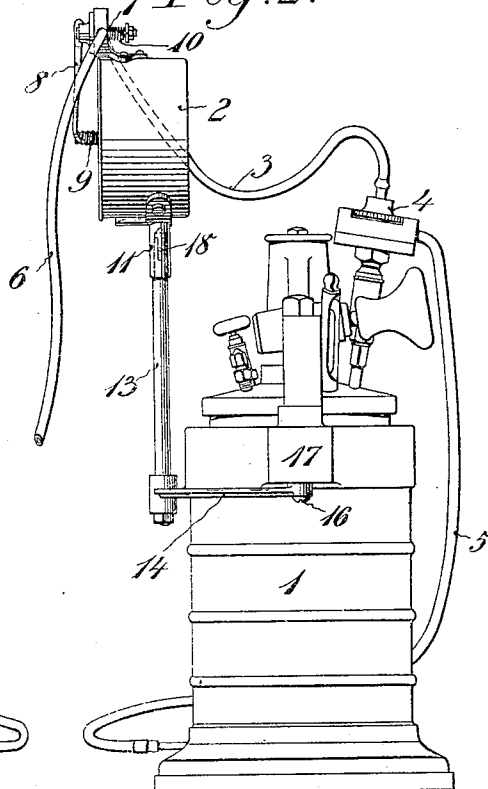


Fig. 3.

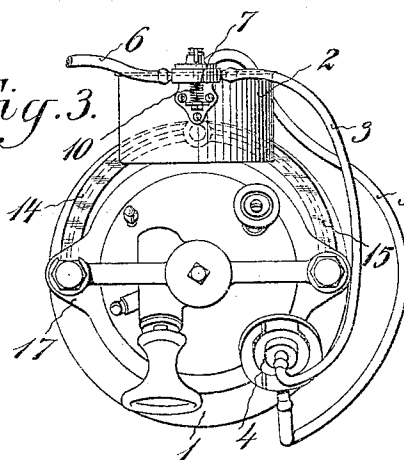
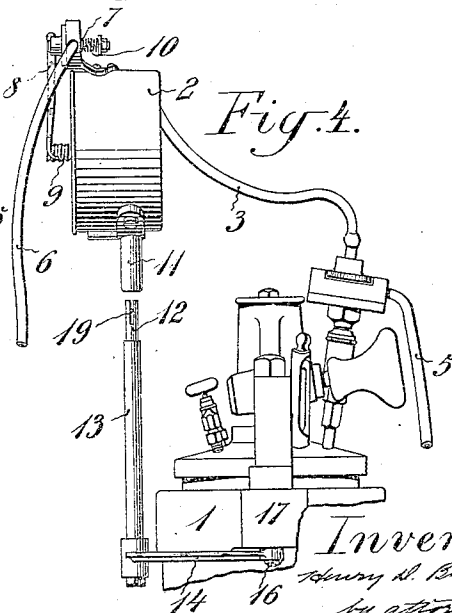


Fig. 4.



Witnesses:
Ottor H. Holmgren.
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by attorneys
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UNITED STATES PATENT OFFICE.

HENRY D. BULTMAN, OF NEW YORK, N. Y., ASSIGNOR TO CONSOLIDATED DENTAL MANUFACTURING COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

VULCANIZER.

935,295.

Specification of Letters Patent. Patented Sept. 28, 1909.

Application filed June 6, 1908. Serial No. 437,162.

To all whom it may concern:

Be it known that I, HENRY D. BULTMAN, a citizen of the United States, and resident of the borough of Manhattan, in the city and State of New York, have invented a new and useful Improvement in Vulcanizers, of which the following is a specification.

My invention relates to vulcanizers and more particularly to time attachments for vulcanizers used for dental work.

Heretofore it has been common to place the clock or timing device on some support independent of the vulcanizer, as, for example, on a shelf or table, and extend the gas pipe to the clock or timing piece and thence to the vulcanizer for supplying the burners to produce the vulcanizing heat, a cut-off being located where it will be tripped by the clock mechanism at the appointed time to shut off the gas and stop the further vulcanization of the product. This arrangement has been found objectionable in that the connection between the time piece and vulcanizer was liable to be engaged by the operator in working about the vulcanizer causing an upset of the time piece and further because it was necessary to locate the vulcanizer in some place convenient to a support for the timer or extend the gas pipe to an undesirable length in order to place the vulcanizer where it was desired and at the same time locate the time piece on a suitable support in proper proximity to the gas supply.

My present invention is directed to means for attaching the time piece directly to the vulcanizer in such a manner that it may be moved about with the vulcanizer and at the same time so attached to the vulcanizer that it may be released from the vulcanizer to permit it to be rocked or reciprocated to start it when, for any cause, the clock or time piece has stopped.

A practical embodiment of my invention is represented in the accompanying drawings, in which—

Figure 1 is a view of the vulcanizer with time piece attached thereto in front elevation. Fig. 2 is a view of the same in side elevation, Fig. 3 is a top plan view, and Fig. 4 is a partial view in side elevation showing the clock released from that part of its support which is fixed to the vulcanizer for purposes of rocking the clock to start it going.

The vulcanizer is denoted as a whole by 1; the clock by 2; the gas pipe leading from the clock to a regulating device on the vulcanizer, by 3; the regulating device by 4; the gas pipe leading from the regulating device to the burners at the base of the vulcanizer, by 5; and the gas supply pipe leading from a suitable source of gas supply, not shown, to the cut-off valve on the clock, by 6.

The cut-off valve on the clock is denoted by 7 and is under spring tension, as is usual, so that when the trip lever 8 escapes off the screw 9 on the center arbor of the clock, the spring 10 will operate the cut-off valve to shut off the gas. The position which the end of the trip lever 8 occupies on the screw 9 near to or farther away from the free end of the screw will determine the shorter or longer time during which the gas will be supplied to the burner at the base of the vulcanizer.

The clock 2 has a socket piece 11 fixed to its under side and extending downward therefrom and adapted to receive the reduced upper end 12 of a standard 13 which is fixed to and uprises from the meeting ends of a pair of arms 14, 15, each of which curves around preferably about one-fourth of the periphery of the vulcanizer and is fixed by means of a screw 16 to the under side of a flange 17 at the upper portion of the vulcanizer.

To prevent the clock 2 from turning on its standard 13, the interior of the socket piece is provided with a depending tongue 18 shown in dotted lines, Fig. 2, which is adapted to fit a slot 19 in the upper reduced end 12 of the standard 13.

The engagement of the socket piece 11 with the reduced portion 12 of the standard 13 is such as to readily admit of the clock with socket piece secured thereto being adapted to be lifted from the standard as shown in Fig. 4 in order that it may be rocked or reciprocated from left to right to start it going when, for any reason, it has stopped. When, however, the clock is in position on the standard, it is held securely in place and the pipe 3 leading from it to the regulator 4 may be short and out of the way of the operator while the clock itself is always in proper position with respect to the vulcanizer and the latter may be placed with clock thereon in convenient re-

lation to the gas supply wherever it may be in the room in which the vulcanizer is being operated.

What I claim is:—

- 5 The combination with a vulcanizer provided with a clock support fixed thereto, comprising a base secured to the vulcanizer and a standard uprising from the base and having a slot in its upper end, of a time
10 piece provided with a depending socket, the socket being provided with a tongue adapted to enter the slot in the top of the

standard, and means under control of the time piece for automatically cutting off a gas supply to the vulcanizer.

In testimony, that I claim the foregoing as my invention, I have signed my name in presence of two witnesses, this fifth day of June 1908.

HENRY D. BULTMAN.

Witnesses:

F. GEORGE BARRY,
HENRY THIEME.