E. K. WALKER & T. RODDICK.

SPRINKLER.

No. 192,100. Patented June 19, 1877.

Fig. 1.

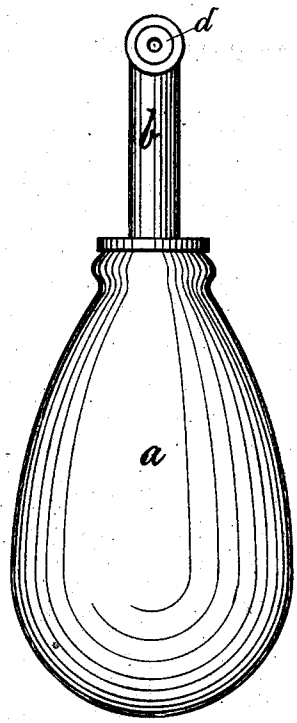
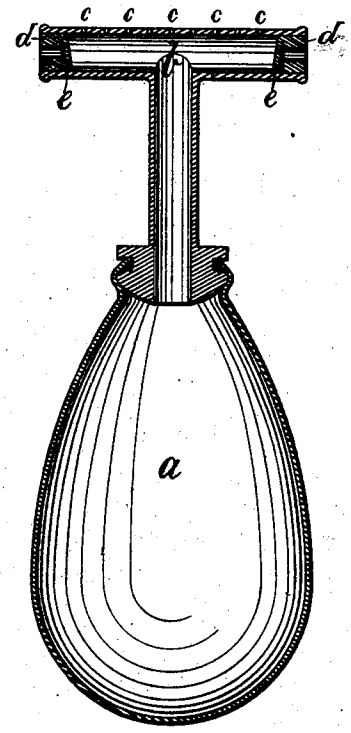


Fig. 2.



Witnesses:

Henry Chadbourn,
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Inventors:

Edward K. Walker
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UNITED STATES PATENT OFFICE.

EDWARD K. WALKER, OF EXETER, NEW HAMPSHIRE, AND THOMAS RODDICK, OF STRANRAER, SCOTLAND.

IMPROVEMENT IN SPRINKLERS.

Specification forming part of Letters Patent No. **192,100**, dated June 19, 1877; application filed April 23, 1877.

To all whom it may concern:

Be it known that we, EDWARD K. WALKER, of Exeter, in the county of Rockingham and State of New Hampshire, and THOMAS RODDICK, of Stranraer, in the county of Wigton, Scotland, have jointly invented certain new and useful Improvements in Sprinklers; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Our invention relates to improvements in sprinklers for sprinkling clothes, carpets, plants, &c.; and this our invention consists of the combination, with a rubber bulb, of a T-pipe having perforations in its end, and automatic valves in each end of the head of said T-pipe, by which arrangement, when the rubber bulb is compressed and the T-pipe immersed in water or any other liquid, the latter will quickly enter through the said automatic valves into the bulb, thus filling the said bulb automatically in a very short space of time.

We are aware that a bulb and a perforated T-pipe have been used in combination, and we do not claim as our invention such a combination.

The gist of our invention is, as stated above, the combination of a rubber bulb, perforated T-pipe, and automatic inlet-valves that open of their own accord when the liquid is drawn into the bulb, and are closed automatically as soon as the bulb is compressed for the purpose of forcing out the liquid through the perforations in the head of the T-pipe.

On the accompanying drawings, Figure 1 represents an end elevation of our invention and Fig. 2 represents a longitudinal section of the same.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

a represents the rubber bulb, and *b* represents the T-pipe provided with perforations *c c c*, as usual. Each end of the head of the T-pipe *b* is open, and into each of said open ends is inserted a rubber valve, consisting of the short rubber tube *d* that forms the valve-seat, and the rubber disk *e* that forms the cover or valve proper. Said disk *e* is made in one piece with the seat or tube *d*. In Fig. 2 the valves *e e* are shown as raised from their seats, as would be the case when the liquid is drawn into the rubber bulb. As soon, however, as the bulb is compressed, the valves *e e* are automatically forced down upon their seats *d d*, thus preventing the flow of the liquid from the bulb except through the perforations *c c c*.

It will thus be seen that this our invention is provided with self-acting valves for the filling of the bulb or receptacle for the liquid, and that the operator has only to compress the bulb when needed for use, by which pressure the said valves are automatically closed.

Having thus fully described the nature, construction, and operation of our invention, we wish to secure by Letters Patent, and claim—

The herein-described sprinkler, consisting of the combination, with the bulb *a*, of the T-pipe *b*, having perforations *c c c* and automatic valves *d e d e*, as and for the purpose set forth.

In testimony that we claim the foregoing as our own and joint invention we have affixed our signatures in presence of two witnesses.

EDWARD K. WALKER.
THOMAS RODDICK.

Witnesses:
ALBAN ANDRÉN,
HENRY CHADBOURN.