R. H. SPALDING.
Bug-Destroyer.

No. 218,789. Patented Aug. 19, 1879.

FIG. 1.

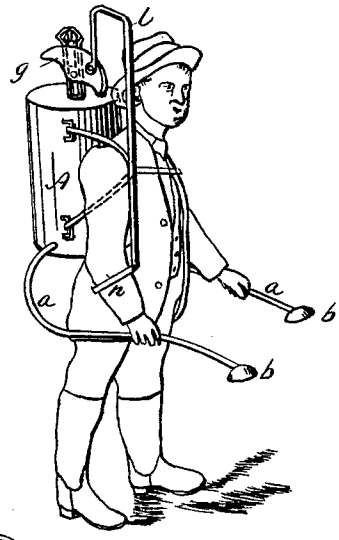


FIG. 2.

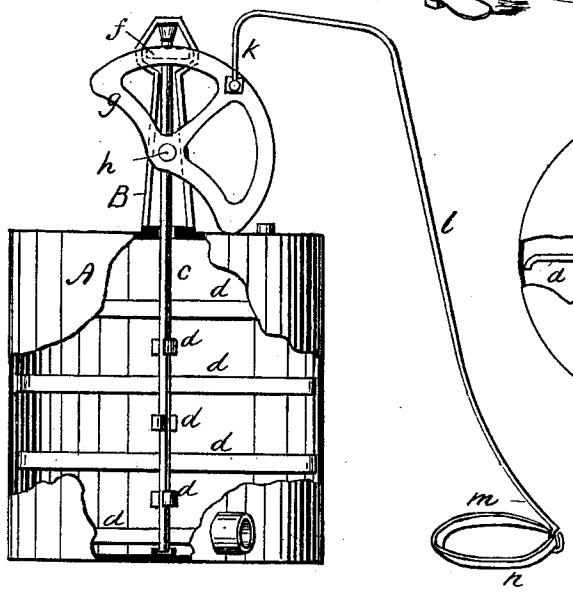
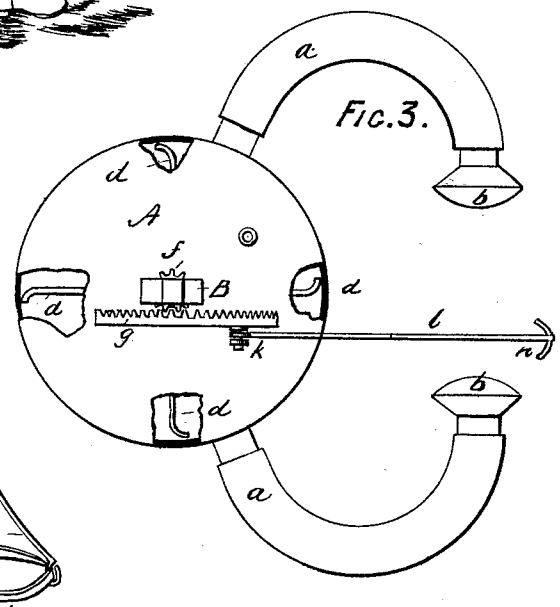


FIG. 3.



WITNESSES.

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RUFUS H. SPALDING, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN BUG-DESTROYERS.

Specification forming part of Letters Patent No. **218,789**, dated August 19, 1879; application filed July 7, 1879.

To all whom it may concern:

Be it known that I, RUFUS H. SPALDING, of Boston, in the county of Suffolk and State of Massachusetts, have invented a certain new and useful Improvement in Bug-Destroyers, of which the following is a full, clear, and exact description.

This invention relates to potato-bug destroyers adapted to be strapped to the person and carried on the back; and it consists of a reservoir provided with one or more sprinklers and an interior stirrer arranged to be reciprocately rotated therein from the movement of the arm of the carrier, all as hereinafter described.

In the drawings, Figure 1 is a perspective view illustrative of the mode of carrying and using this improved bug-destroyer; Fig. 2, a side elevation in part, and vertical section in part; Fig. 3, a plan view in part, and horizontal section in part.

In the drawings, A represents a reservoir, which, in the present instance, is shown of a cylindrical shape, and is to be made of sheet metal or other suitable material, and adapted to be filled at a nozzle or other suitable inlet. This reservoir A is provided with straps suitable for fastening it to the back of the person—as, for instance, as shown in Fig. 1, and at or near the bottom, and on sides opposite to each other it is provided with a flexible tube, *a*, and each tube at one end communicates with the inside of the reservoir, and at the other end is provided with a sprinkler-cap, *b*. *c* is an upright central shaft within the reservoir A, and turning in suitable bearings thereof. This shaft within the reservoir has a series of horizontal arms, *d*, one above another. These arms *d* are fixed to the shaft, and the revolution of the shaft moves them around within the reservoir, and thus the contents of the reservoir are stirred and agitated; and as it is intended for the purposes of the invention to use in the reservoir paris-green, or any other suitable poison, and water or other suitable liquid, this agitating of said contents by the said arms serves to prevent the settling of the paris-green to the bottom of the reservoir, and to hold it in a state of suspension within the liquid, and thus in a condition to pass out with the liquid at the sprinklers *b* and be distributed as desired. The shaft *c* passes out of the upper end of the reservoir A, and there it is provided with a horizontal pinion-wheel, *f*, which engages with a vertical sector gear-wheel, *g*, that turns on a center-pin, *h*, of a fixed standard, B, and has pivoted to one of its vertical faces one end, *k*, of a bent lever-rod, *l*, which, at its other end, *m*, is adapted, by a strap, *n*, or otherwise, to be strapped to the arm of the carrier below or above the elbow, as may be desired.

With this arrangement of mechanical parts the swing of the arm of the carrier will reciprocately rotate the shaft *c*, and thus cause the stir and agitation of the contents of the reservoir, as hereinabove described.

A reservoir, A, provided with sprinklers *b* and a stirrer or agitator, as hereinabove described, obviously enables the poisonous matters in the reservoir to be kept constantly mixed with and to be held in suspension in the water while it is being carried about and distributed at the sprinklers at each side of the reservoir, and by having two sprinklers, one each side of the reservoir, obviously two rows of potatoes can be sprinkled by the person at one and the same time.

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

The combination, with a reservoir, A, which is adapted in any suitable manner to be strapped to the back of a person, and is provided with a sprinkler, *b*, and a vertical shaft, *a*, which has horizontal arms *d* within the reservoir, of gearing *f g*, connected with said shaft *a*, and of a lever-arm, *l*, pivoted to said gearing, and adapted to be strapped to and operated by the arm of the carrier, substantially as described, for the purpose specified.

RUFUS H. SPALDING.

Witnesses:

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