

(No Model.)

A. DUTTON.
TORCH.

No. 462,692.

Patented Nov. 10, 1891.

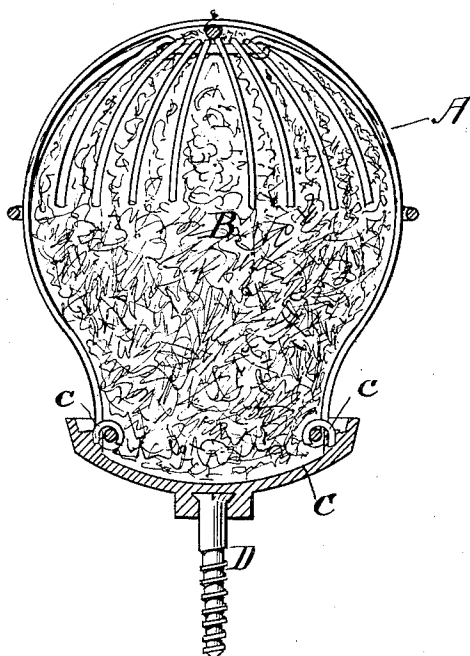


Fig. 1.

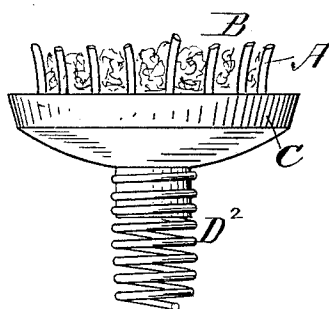


Fig. 2.

WITNESSES.

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UNITED STATES PATENT OFFICE.

ALBERT DUTTON, OF WATERTOWN, MASSACHUSETTS.

TORCH.

SPECIFICATION forming part of Letters Patent No. 462,692, dated November 10, 1891.

Application filed November 21, 1890. Serial No. 372,135. (No model.)

To all whom it may concern:

Be it known that I, ALBERT DUTTON, of Watertown, in the county of Middlesex and State of Massachusetts, a citizen of the United States, have invented certain new and useful Improvements in Torches, of which the following is a specification.

My invention relates to improvements in that class of torches particularly intended for the destruction of insects, larvæ, &c., upon fruit-trees, &c., and its object is to improve the construction of these devices, as hereinafter explained.

In the accompanying drawings I have represented at Figure 1 in vertical section a device embodying my present improvement in the form now best known to me, and at Fig. 2, a modification of the attaching device for the same, as hereinafter more fully explained. In the drawings, A represents a cage, preferably rounded at the top, as shown. This cage may be conveniently constructed of wire or other material capable of resisting the heat generated while in use. Within the cage I place a charge of oil-absorbent material, preferably asbestos, as shown at B. At the bottom of the cage I attach a shield or drip-cup C, as shown. Any convenient means of attachment may be used; but when the cage is made of wire I prefer to attach it to the cup by means of other wires secured thereto, as shown at c, and hooked over the wire framework of the cage.

The shield C is to be provided with a suitable device, whereby it may be readily secured upon the end of a stick or pole. For this purpose I prefer to employ a screw D, secured to the shield and extending downwardly therefrom, which may be readily screwed into the end of the stick or pole. Another convenient means of attachment, however, will be found to be the wire D², (see Fig. 2,) having one end

attached to the shield and the other coiled to surround and hug the extremity of the stick or pole. I should prefer to employ spring-wire for this purpose.

In using my improved torch, after the oil-absorbent has been placed within the cup and the latter secured to the shield, the absorbent is saturated with oil and lighted in any convenient manner. It may then by means of the stick or pole be passed around over different portions of the tree to be cleared of insects, whereby they will be readily burned off. The shield or cup C at the same time will serve to prevent the oil from running down the stick or pole, and also will protect the same to a considerable degree from the heat from the burning oil.

It will be noticed, as a feature of my improved device above described, that inasmuch as it embodies in one structure the cage, cup, and means of attachment to the stick or pole, it occupies little bulk and can be readily transported and sold, the purchaser ordinarily providing his own pole, to which my device can be readily secured for use as above described.

I claim—

The improved insect-torch herein described, consisting of a reticulated cage, a charge of oil-absorbent material located within the same, a shield attached to the lower portion of said cage, and means, substantially as described, for attachment to a stick or pole, all substantially as set forth.

In testimony whereof I have hereunto subscribed my name this 13th day of November, A. D. 1890.

ALBERT DUTTON.

Witnesses:

ELLEN B. TOMLINSON,
JOHN H. TAYLOR.