(No Model.)

J. A. PARSONS.

SPRAYING APPARATUS.

No. 426,954. Patented Apr. 29, 1890.

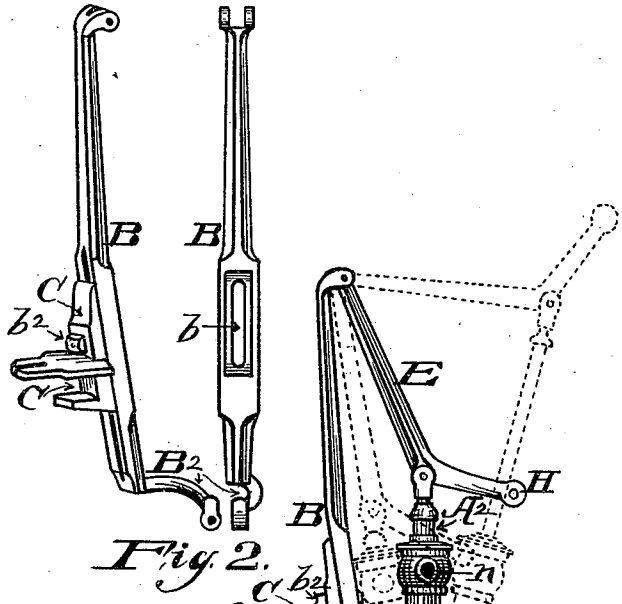


Fig. 2.



Front view of handle.

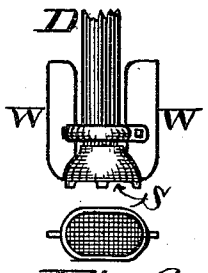


Fig. 3.

Fig. 1.

Witness,
R. W. Thompson
Abm. Seltz

Inventor,
Joseph A. Parsons,
By Attorney Geo. W. Tibbitts

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JOSEPH A. PARSONS, OF ROCKY RIVER, OHIO.

SPRAYING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 426,954, dated April 29, 1890.

Application filed January 8, 1890. Serial No. 336,244. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH A. PARSONS, a citizen of the United States, residing at Rocky River, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Spraying Apparatus, of which the following is a specification.

This invention relates to an apparatus for throwing a poison solution in the form of spray on trees and shrubbery for destroying vermin; and it consists of the novel mechanism constructed and arranged to operate substantially as hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation of my apparatus as seen attached to a barrel (barrel in section) in working order. Fig. 2 is a detached view of the pump-supporting post. Fig. 3 is a view of the lower end of the pump-barrel, showing wings attached for agitating the liquid in the barrel.

A represents a barrel in longitudinal half-section to show position and manner of working my force-pump spraying apparatus. The bung-hole has been elongated to admit of swinging play of the pump-barrel. B is a post secured in one end of said elongated bung-hole. It is provided at its middle portion with a slot *b*, through which a bolt b^2 passes for holding the post to a bracket C, secured to the barrel A by a bolt and nut *c*. The lower end of said post is provided with a curved arm B^2, to which is pivoted a clip-ring *d* on the pump-barrel D.

The post B stands at an angle from a perpendicular line through the barrel A, and the upper half is bent slightly toward the perpendicular line. This is to provide room for the upper part of the pump-barrel to swing toward the post. To the top of the post is pivoted a lever E, having a handle H, and is pivoted to the pump-rod A^2 just above the said handle.

The pump is a double-acting force-pump, and is provided with a discharge-nipple *n*, to which a hose (not shown) may be attached. The lower end of the pump-barrel is provided with a cap and strainer S.

W W are wings attached to lower end of the pump-barrel for agitating the liquid in the barrel A. They consist of two leaves, each having a half-ring for embracing the pump-barrel, one half having a lug entering a notch in the other half, the opposite side of said notched half having a lug with a hole for a screw to secure the two halves together.

The working of this apparatus, as will readily appear, is as follows: The operator in working the pump-handle to operate the pump also imparts an oscillating movement to the pump-barrel, as indicated by the dotted lines, and thereby keeps the liquid in the barrel in a constant state of agitation for thoroughly mingling the poison with the water. The post B is made adjustable, by means of the slot *b*, to the bracket C, so that the pump may be adjusted to the varying sizes of barrels. To attach this apparatus, the bung-hole is first elongated, as before stated, then the bracket C, detached from the post, is secured in place in one end of said elongated hole. Now the lower end of the pump-barrel is inserted through said hole and lowered to the proper depth to clear the bottom of the barrel when swinging and the post secured to the bracket by the bolt and nut b^2. The apparatus is now ready to be put into operation. It will be observed that the pump-barrel, being pivoted to the supporting-post at one side from its center line, relieves the pump-rod A^2 from side friction and wear in the packing through which it plays, and also renders the oscillating motions of the pump-barrel more easily performed.

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

1. The combination, with barrel A, having an elongated bung-hole, of the post B, provided with adjustable bracket C, by which it is adjustably secured in one end of the bung-hole and having an arm B^2 on its lower end, and the pump-barrel D, suspended thereto, substantially as described.

2. The combination, with barrel A, having an elongated bung-hole, the post B, adjustably secured in said bung-hole and having arm B^2 on its lower end, of the pump C, pivotally attached to one side of its center line, and the connecting-rod E, pivotally attached to top end of said post B and also connected to the

pump-rod A^2, whereby the pump when operated has an oscillating movement, substantially as and for the purpose specified.

3. The combination of barrel A, having an elongated bung-hole, post B, adjustably secured in one end of said bung-hole and having arm B^2 on its lower end, pump C, pivotally suspended to said arm and provided on its lower end with the wings W W, and the connecting-rod E, pivotally attached to the top end of said post B and also connected to pump-rod A^2, whereby the oscillating movements of said pump greatly agitate the contents of the barrel, as and for the purpose set forth.

JOSEPH A. PARSONS.

Witnesses:
GEO. W. TIBBITTS,
ABNER SLUTZ.