C. W. CAMP.

SPRINKLING APPARATUS.

APPLICATION FILED MAR. 17, 1917.

1,275,382.

Patented Aug. 13, 1918.

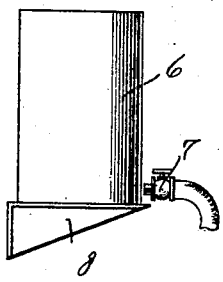


Fig. 1.

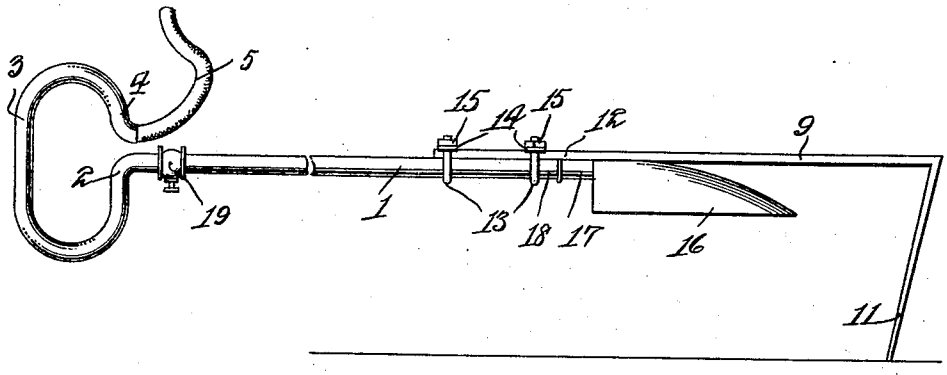


Fig. 2.

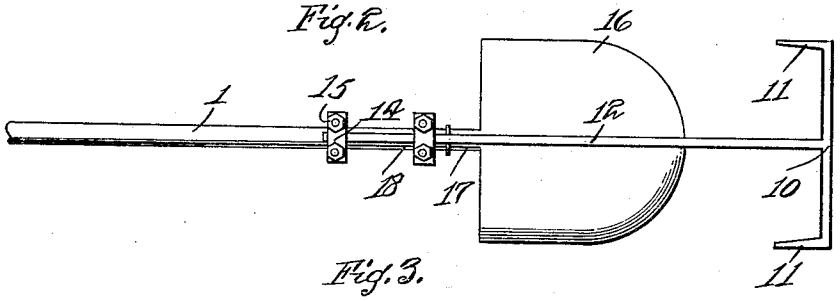
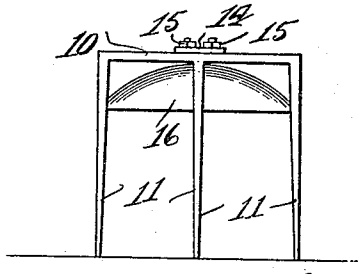


Fig. 3.



WITNESSES

E. N. Taylor

Frank D. O'Connell

INVENTOR

Claude W. Camp.

BY Richard B. Owen.

ATTORNEY

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

UNITED STATES PATENT OFFICE.

CLAUDE W. CAMP, OF PETOSKEY, MICHIGAN.

SPRINKLING APPARATUS.

1,275,382. Specification of Letters Patent. Patented Aug. 13, 1918.

Application filed March 17, 1917. Serial No. 155,549.

To all whom it may concern:

Be it known that I, CLAUDE W. CAMP, a citizen of the United States, residing at Petoskey, in the county of Emmet and State of Michigan, have invented certain new and useful Improvements in Sprinkling Apparatus, of which the following is a specification.

My invention has reference to sprinkling apparatus and more particularly to an improved sprinkler which can be readily and easily used for a novel purpose.

One of the principal objects of the invention is to provide a sprinkler having associated therewith suitable raking means, and a deflector element adapted to direct a spray of liquid over the material being raked.

A further object consists in having the sprinkler so connected to the liquid supply source that it may be conveniently handled by the operator without danger of the liquid feed being impeded or impaired, suitable valve means being arranged within reach of the operator for cutting off or increasing the flow at will.

Another object of the invention is to provide a device of this character particularly adapted for the purpose of moistening ashes prior to their removal from the furnace whereby they may be subsequently taken out without the dust and other inconveniences usually incident to such a task.

With the above and other objects in view, my invention consists in the details of construction and arrangement of parts as will be hereinafter more fully described in the following specification and particularly pointed out in the drawings, wherein—

Figure 1 is a view of my improved sprinkler in side elevation,

Fig. 2 a top plan view of the discharge end of the sprinkler, showing the relative positions of the deflector plate and rake means, and

Fig. 3 an end view of the same.

By particular reference to the drawings, wherein is illustrated the preferred embodiment of the invention, it will be seen that I have provided a tubular member 1 to be constructed of any length suitable to the purpose for which the device may be employed and having a bore sufficiently large to permit of a ready flow of water therethrough. One end of the tubular member 1 is bent as indicated at 2 and curved to provide a suitable handle 3. The terminal 4 of the handle, as will be noted, lies in proximity to the bend 2 and is joined with a flexible tube or hose 5. The tube 5 extends up into engagement with a container 6 wherein is kept a suitable supply of water. The flow of the water from the container 6 into the tube 5 is controlled by a regulating valve 7 positioned adjacent the lower end of the container and to which the tube 5 is directly attached. The container 6 is naturally to be supported upon a shelf or other holder 8 at a sufficient height to cause a steady flow of water through the tube 5 and into the tubular member 1 when the valve is properly adjusted.

A rake element 9 is associated with the tubular member 1 and consists of a cross head 10 from which depends the raking prongs or teeth 11. Extending rearwardly from the cross head 10 is the shank 12 which rests upon the upper end of the tubular portion 1, which member, in fact, constitutes the handle of the device. Suitable U clamps 13 are engaged about the member 1 at the end upon which the shank 12 rests and are provided with plates 14 which bear against the shank of the rake, being securely held thereagainst by tightening nuts 15. By loosening the nuts 15, the shank 12 may be adjusted longitudinally of the member 1.

It is of course common experience that the handling of finely sifted ashes causes the same to permeate the atmosphere in fine dust-like particles, which is injurious to the lungs when inhaled and which also renders the task of cleaning furnaces, etc., both difficult and annoying, and as my invention has in view to prevent this fine dust from arising during the handling of ashes, through the spraying of liquid thereon, I provide the tubular member 1, already described, with a deflecting or sprayer plate 16. This deflecting plate has a tubular connecting shank 17 adapted to be suitably engaged with the discharge end 18 of the member 1 so that the water may readily pass through the member against the plate 16 and be thus deflected or sprinkled upon the ashes. The deflector plate extends laterally on both sides of the member 1 and rake shank 12 so as to prevent any water from being thrown into engagement with the furnace grate while the ashes beneath the same are being raked by the member 9. The inner face of the sprayer is concaved and curved downwardly

in proximity to the discharge end of the shank 17 so that the liquid, in being thrown against the deflector plate will be caused to immediately scatter and spray over the subjacent ashes. This is permitted because the sprayer stands at a level considerably higher than the tips of the rake teeth 11 as seen in Fig. 3.

Suitable valve means 19 are provided in proximity to the handle 3 for controlling the flow of the water into the member 1, and is in convenient reach of the operator so that he may manipulate it at his convenience to determine the velocity or extent of the flow of water through the member 1.

From the above, it will be seen that my invention comprises a device which may be readily used as a rake, particularly adapted for raking hot or cold ashes and which has suitable means provided therewith for spraying the ashes so as to prevent the rise of dust therefrom. It is further to be noted that the various parts of the invention are separable and may be easily replaced or removed at will, and when disassembled, the device may be readily stored away in some out of the way place.

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

1. The herein described sprinkling apparatus consisting of a tubular member bent laterally at one end and then formed into a loop-shaped handle, a hose connection between this handle and a source of liquid supply, a sprayer carried by the other end of said member, and an implement whose shank overlies said sprayer and is secured to said member.

2. In a sprinkling apparatus the combination with a rake comprising upright teeth, a cross head, and a shank; of a tubular member underlying and clipped to said shank, a sprayer plate carried by the forward end of said member beneath the shank and at a higher level than the tips of the rake teeth, and means for supplying liquid to the other end of said tubular member.

In testimony whereof I affix my signature in presence of two witnesses.

CLAUDE W. CAMP.

Witnesses:
H. N. CRANDALL,
E. A. CRANDALL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."