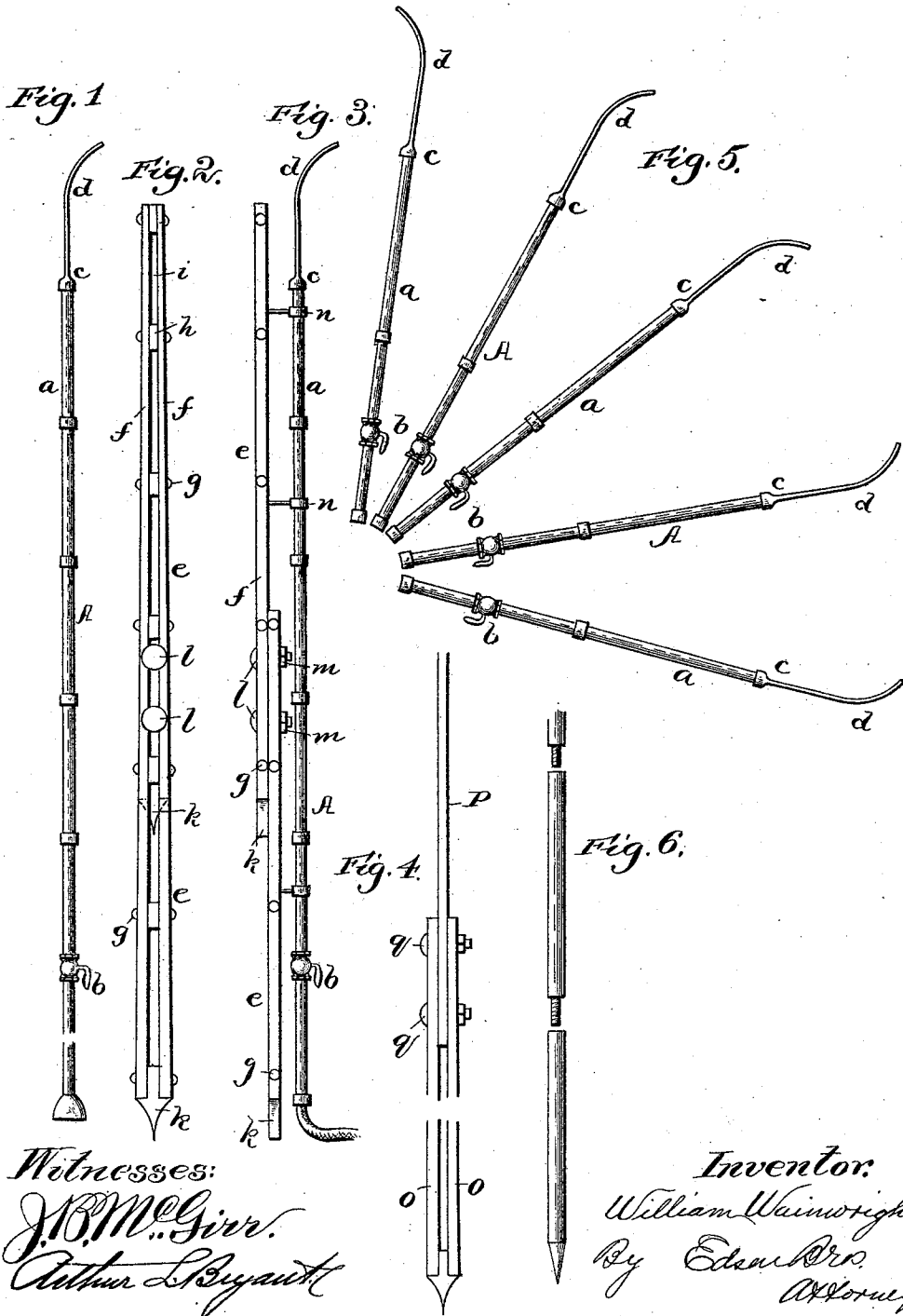


(No Model.)

W. WAINWRIGHT.
SPRAY ROD.

No. 473,037.

Patented Apr. 19, 1892.



Witnesses:
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UNITED STATES PATENT OFFICE.

WILLIAM WAINWRIGHT, OF SAN FRANCISCO, CALIFORNIA.

SPRAY-ROD.

SPECIFICATION forming part of Letters Patent No. 473,037, dated April 19, 1892.

Application filed August 26, 1891. Serial No. 403,819. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM WAINWRIGHT, a citizen of the United States, and a resident of San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Spray-Rods; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in spray-rods for use in operating upon trees, shrubbery, walls, ceilings, fences, &c.; and the object of my invention is to provide a simple, cheap, and effective device whereby the operator can throw the spray or wash at different angles without discontinuing the work.

With these ends in view my invention consists in a spray-rod having one or more tubular sections, which are suitably connected together and to a source of supply, of a stop-cock for regulating the flow of wash to the rod, and a nozzle arranged at the end of said rod.

My invention further consists in a novel device for supporting said spray-rod when using the same to spray objects at a considerable elevation.

My invention further consists in the peculiar construction and arrangement of parts, as will be hereinafter more fully described and claimed.

To enable others to understand my invention, I have illustrated the same in the accompanying drawings, in which—

Figure 1 is an elevation of a spraying device constructed in accordance with my invention. Fig. 2 is a front view of one of the supports or stays for use in spraying objects at considerable elevation. Fig. 3 is a side view of the same with the spray-rod connected thereto. Fig. 4 is a view of a modified form of stay or support. Fig. 5 is a view showing several angles at which the spray may be delivered without requiring the operator to change his position.

Like letters of reference denote corresponding parts in all the figures of the drawings, referring to which—

A designates my improved spray rod or pipe, which consists of one or more sections

or members *a*, of any desirable length, suitably coupled together, and the lower one of which is connected with any suitable source of supply and provided with a cock *b* for controlling and regulating the admission of liquid to the rod or pipe A. The outer end of the last section of the pipe or rod A is provided with a reducing-socket *c*, in which is fitted one end of the nozzle *d* of the pipe. This nozzle *d* is preferably made about half the diameter of the main body of the pipe or rod A, and said nozzle is bent at an intermediate point of its length and extends at an angle of about thirty degrees to the main portion of the pipe A.

It will be seen by reference to Fig. 5 that the operator can, by simply turning the pipe A or raising or lowering the rear or lower end thereof, direct the spray at many different angles and places without moving or changing the nozzle, which is impossible with other devices used for this purpose.

By making the pipe or spray-rod A in sections I am enabled to readily adjust the same to spray objects at different elevations, and also the rod can be easily taken apart for the purpose of being cleaned, repaired, &c.

When it is desired to spray objects at considerable elevation from the ground, I employ the support or stay illustrated in Figs. 2 and 3, which consists of one or more members or sections *e*, connected together and adapted to be moved longitudinally one on another in a manner to be hereinafter described. Each of these sections or members *e* consists of two parallel strips *f*, of any desired thickness and width, which are secured together at intermediate points of their length by bolts *g*. Between the strips *f* are also secured a series of blocks *h*, which form a series of longitudinal slots *i*, and to the lower end of the strips *f* is attached a spike *k*. The strips *f* are preferably made larger at their lower ends and taper or are reduced gradually in the direction of their length. Two or more of these sections *e* are attached together by means of screw-bolts *l*, which pass through the aligned slots *i* in such sections and have their heads bearing against the strips *f* of one member, and nuts *m*, fitted on their outer ends and bearing against the strips or sides *f* of the other member. The two members can thus

be adjusted longitudinally of each other, and, if necessary, additional members or sections can be attached, as just described. The spray rod or pipe A is connected to said stay or support by bands *n*.

In Fig. 4 I have illustrated a modified form of support or stay, which consists of a lower section composed of two parallel strips *o*, provided with a spike at their lower ends and having another member *p* fitted between them and held in place by set-screws or bolts *q*.

In using my improved device the spike *k* is inserted in the ground or floor, and about it, as a pivot, is turned the stay or support and its attached rod.

I am aware that changes in the form and proportion of parts and details of construction of the devices herein shown and described as an embodiment of my invention can be made without departing from the spirit or sacrificing the results thereof, and I therefore reserve the right to make such changes as fairly fall within the scope of my invention.

In Fig. 6 I have shown another modification of the stay or support, in which the lower end of each section is reduced and screw-threaded and adapted to be screwed into a

threaded socket formed in the upper end of the section below.

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

A spray rod or pipe consisting of a series of sections detachably connected together to form a continuous vertical pipe provided at one end with an angular nozzle of less diameter than the body of the pipe and having its other end adapted to be connected to a source of supply, in combination with a stay or support comprising two or more sections adjustably connected together, and a series of arms *n*, carried by the stay or support, one or more to each section thereof, and fitting loosely around the spray rod or pipe, so that said pipe may be rotated from its lower end to vary the direction of its nozzle without moving the stay or support, substantially as described.

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

WILLIAM WAINWRIGHT.

Witnesses:

J. T. HARMES,
W. H. MEDINA.