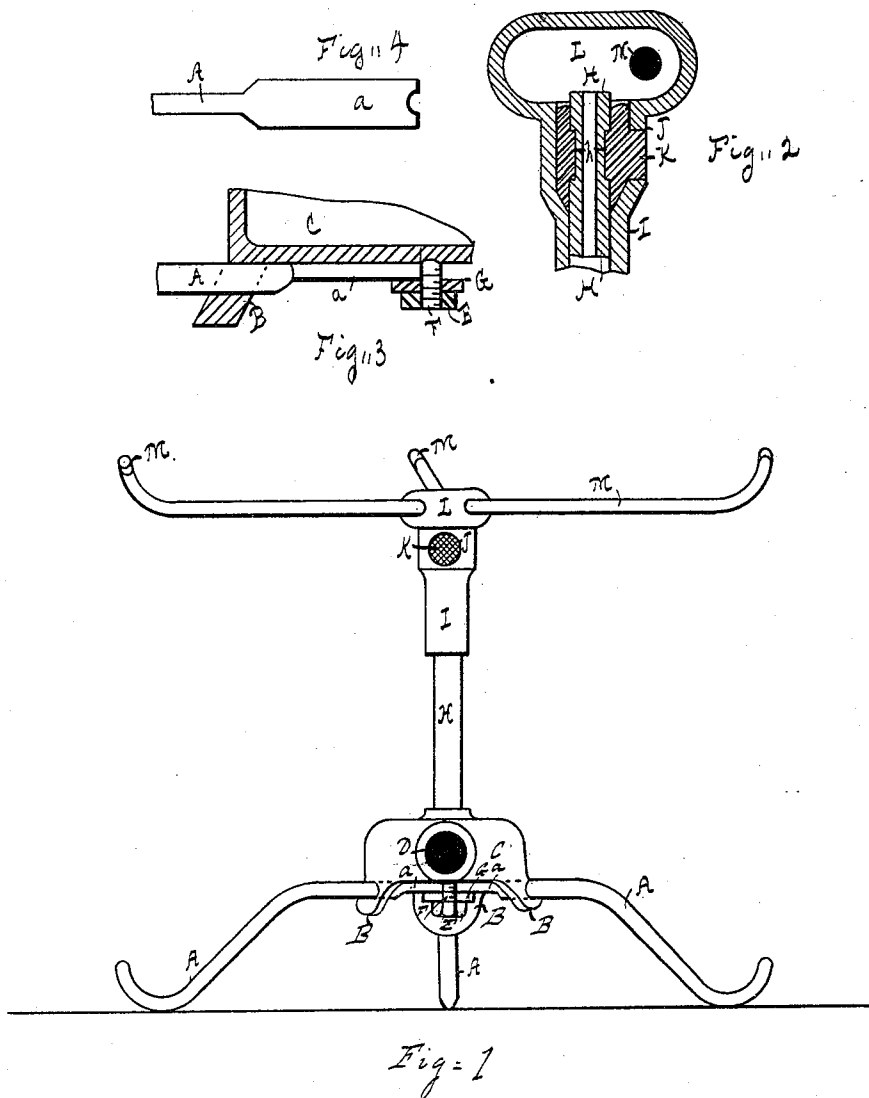


(No Model.)

H. YOE.
LAWN SPRINKLER.

No. 461,726.

Patented Oct. 20, 1891.



Witnesses

Herbicide H. Anderson
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UNITED STATES PATENT OFFICE.

HENRY YOE, OF DETROIT, MICHIGAN.

LAWN-SPRINKLER.

SPECIFICATION forming part of Letters Patent No. 461,726, dated October 20, 1891.

Application filed February 24, 1891. Serial No. 382,433. (No model.)

To all whom it may concern:

Be it known that I, HENRY YOE, of Detroit, in the county of Wayne and State of Michigan, have invented a new and useful Improvement in Lawn-Sprinklers, of which the following is a specification.

My invention consists in an improvement in lawn-sprinklers, hereinafter fully described and claimed.

10 Figure 1 is a side elevation. Fig. 2 is a vertical section through the head, part of the sleeve, and part of the stand-pipe. Fig. 3 is a partial vertical section through the box, and Fig. 4 is an elevation of the inner end of one
15 of the legs.

C represents a hollow box or casting provided at one side with a threaded opening D to receive a hose-coupling.

20 B represents loops, preferably three in number, formed on the lower side of box C, through which pass bent wires A, which at their inner ends are flattened, as shown at a, to lie against the under side of the box C, and have their ends cut away, as shown at Fig. 4, to fit against a screw-bolt F, embedded in the center of the under side of the box C. G represents a washer surrounding said bolt F and adapted to bear on the inner ends a of the legs A, and E represents a nut on said bolt,
25 by means of which the ends of said legs are clamped firmly between washer G and box C, thus making a firm structure.

30 H represents a stand-pipe, which screws into the upper side of box C and rises vertically therefrom to any desired height. Near the upper end of stand-pipe H is turned a smooth groove h, Fig. 2.

I represents a sleeve fitted loosely over stand-pipe H, slightly enlarged opposite the
40 groove h in said stand-pipe, and which has an enlarged hollow head L, into which the upper end of stand-pipe H opens.

45 M M M represent hollow arms connected with said head L and extending outwardly therefrom, perforated to form the well-known Barker's mill, and preferably curved at their ends, as shown at Fig. 1, to increase the height and reactionary effect of the issuing jets.

K represent Babbitt or equivalent anti-friction metal, which is applied by slipping the sleeve I over the stand-pipe H until the opening J, formed through said sleeve, comes opposite the groove h, when the babbitt is poured in so as to completely fill said groove h and the interior of a portion of the sleeve I and extending up into the opening J. The sleeve I is then forcibly rotated, preferably at high velocity, in the lathe and the Babbitt metal K turned with the sleeve and forming, in connection with groove h, a firm and easy-moving bearing for the sleeve on the stand-pipe.
50 55 60

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a lawn-sprinkler, the combination, 65 with a hollow box having depending loops and provided with a hose-coupling, and a central depending bolt, of legs formed of wire extending through the loops and having their inner ends adapted to lie in close proximity to said bolt and clamped between the bottom of the box, and a nut on said bolt, substantially as shown and described.

2. In a lawn-sprinkler, the combination, 75 with a hollow box provided with a hose-coupling, of a vertical stand-pipe having a longitudinal groove h at its upper end, the sleeve I, journaled on the grooved part of the stand-pipe and having the hollow head L, and lateral opening J adapted to lie opposite the longitudinal groove in the stand-pipe, and Babbitt or similar metal K, engaged with the groove in the stand-pipe and the opening in the sleeve, substantially as described.

3. In a lawn-sprinkler, the combination of 85 the box C, carrying the depending loops B, screw-bolt F, with the bent-wire legs A, having their inner ends flattened and cut away to fit against the bolt, and a nut E upon said bolt, whereby said legs are firmly clamped to the box, substantially as shown and described.
90

HENRY YOE.

Witnesses:

JNO. G. RUMNEY,
H. G. SOBENSTINE.