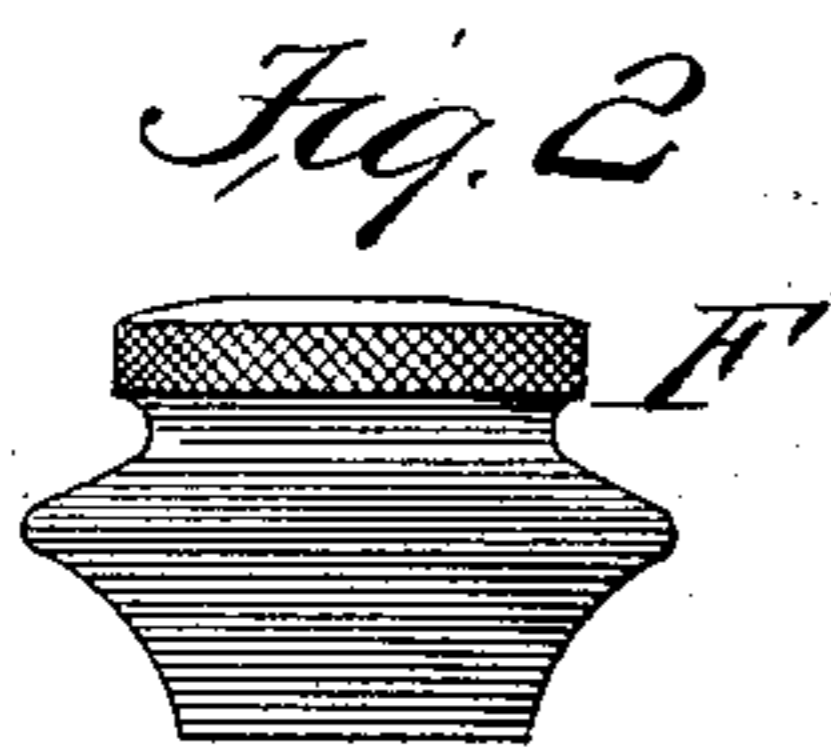
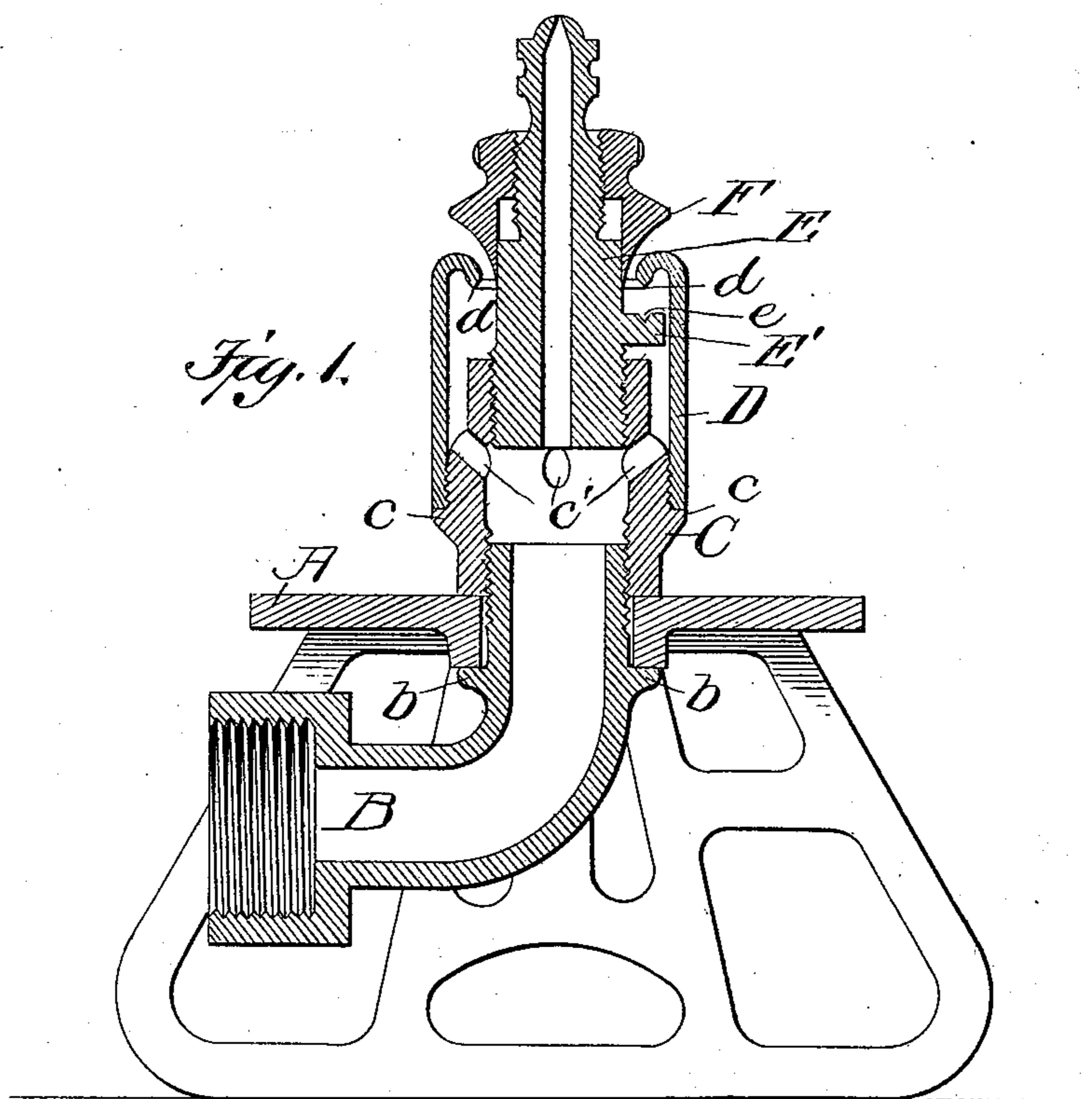


(No Model.)

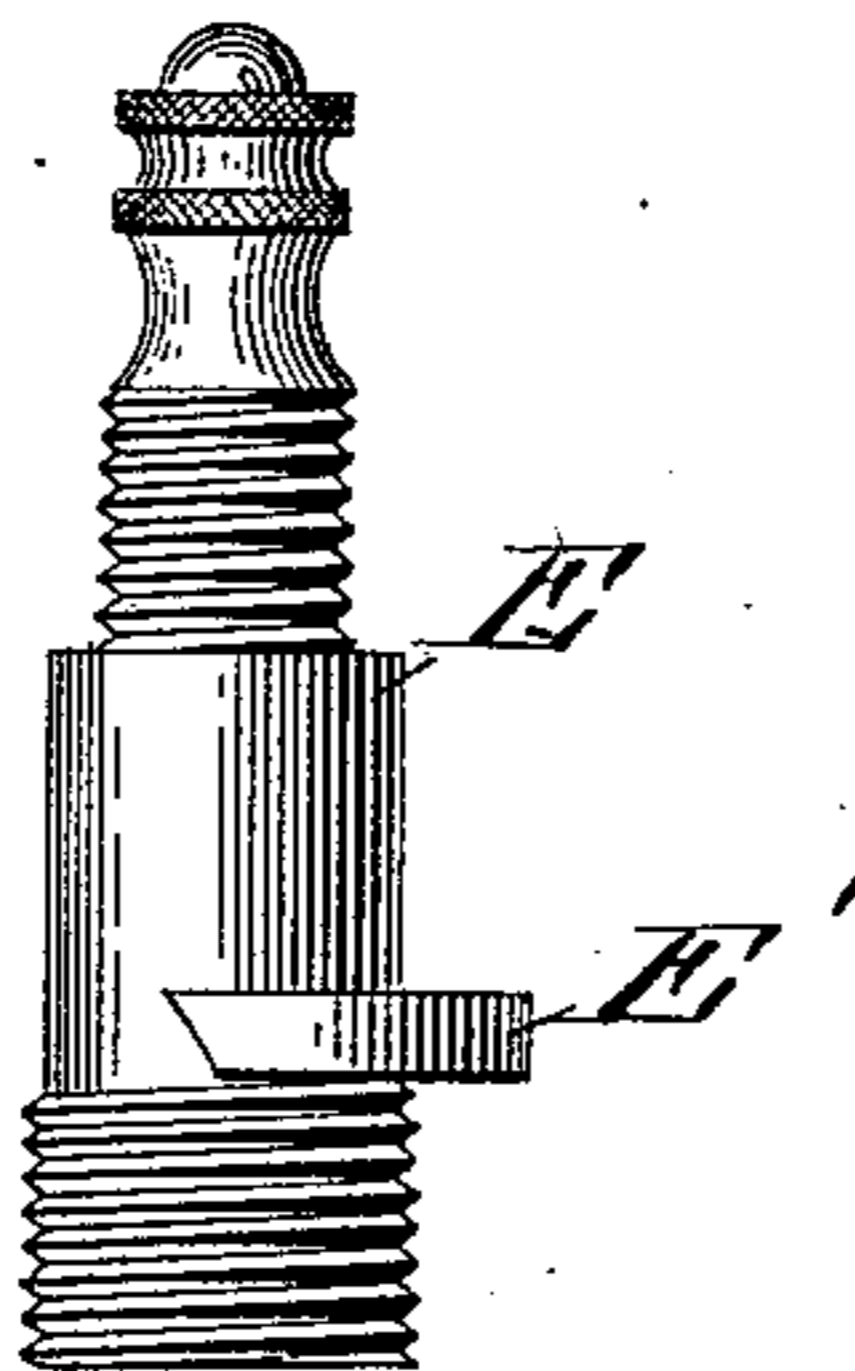
B. H. SANDERS.  
SPRINKLER.

No. 558,568.

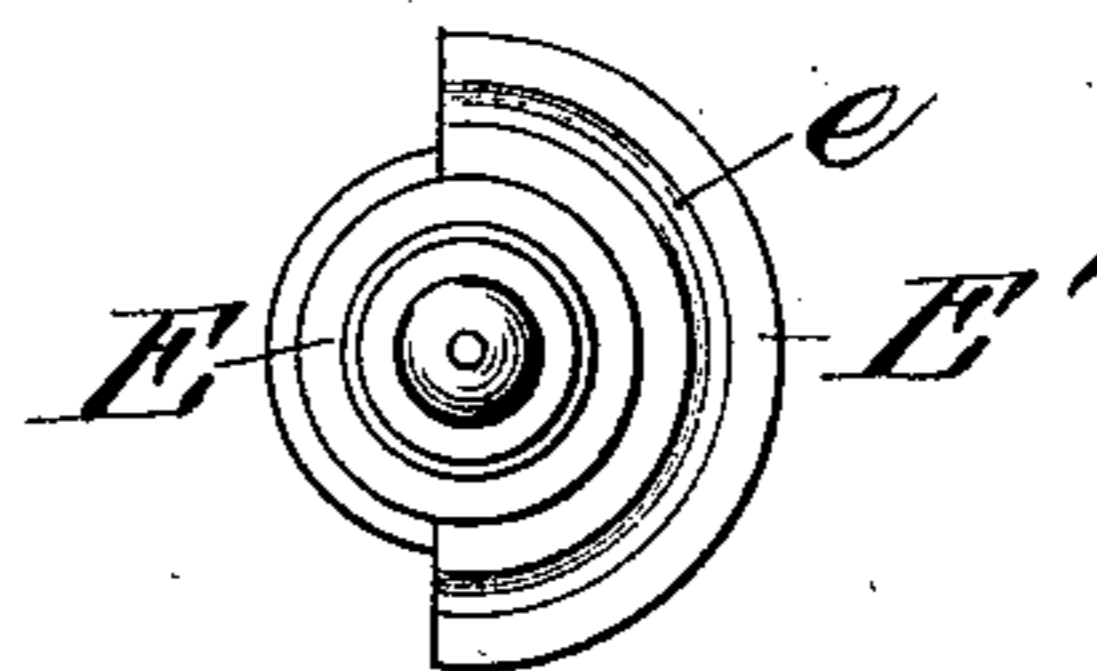
Patented Apr. 21, 1896.



*Fig. 3.*



*Fig. 4.*



Witnesses:  
*J. R. Cornwall*  
*Hugh H. Wagner*

Inventor:  
*Barney H. Sanders*  
by *Paul Bakewell*  
*his atty*

# UNITED STATES PATENT OFFICE.

BARNEY H. SANDERS, OF ST. LOUIS, MISSOURI, ASSIGNOR TO THE PLEUGER & HENGER MANUFACTURING COMPANY, OF SAME PLACE.

## SPRINKLER.

SPECIFICATION forming part of Letters Patent No. 558,568, dated April 21, 1896.

Application filed March 18, 1895. Serial No. 542,091. (No model.)

*To all whom it may concern:*

Be it known that I, BARNEY H. SANDERS, a citizen of the United States, residing at the city of St. Louis, State of Missouri, have invented a certain new and useful Improvement in Sprinklers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification, wherein—

Figure 1 is a vertical sectional view through my improved sprinkler. Fig. 2 is a side elevational view of the adjustable plug. Fig. 3 is a side elevational view of the central nipple, and Fig. 4 is a top plan view of the same.

This invention relates to a new and useful improvement in sprinklers of that class which are adapted to be connected to the end of a garden-hose for spraying the water in a circle in a thin sheet. In devices of this class, where they are used in a small space or are placed close to a wall, the water will strike the wall and form a puddle at its base. This invention contemplates means for obviating this difficulty; and it consists in the construction and arrangement of the several parts, whereby one side of the sprinkler is made blind or is choked in such manner that the spray may, if desired, be directed in a given direction or cover only a portion of a circle.

In the drawings, A indicates a runner or anchor, upon which my improved sprinkler is preferably mounted, so that it can be maintained in a vertical position. Projecting up through an opening in the cross-piece of the runner is the threaded end of coupling B, of any desired or approved construction, which coupling is provided with a flange *b*, bearing on the under side of the cross-piece. Threaded upon the upper projecting end of coupling B is the base C of the sprinkler, whose lower face bears against the upper face of the cross-piece of the runner and clamps the same in place. This base C is provided with a shoulder *c*, above which are screw-threads for receiving a sleeve D. The upper end of this sleeve is bent inwardly and preferably formed with a seat *d*. Base C is also provided with

openings *c'* for the passage of water from its interior to within sleeve D.

Threaded into the upper end of base C is a nipple E, preferably formed with a central aperture for directing a stream of water upwardly. E' indicates a radial projection formed on nipple E, in the form of a segmental wing, which is preferably cut with a concentric groove *e* on its upper face, which co-operates with the seat *d* on sleeve D.

When the nipple is so rotated that it moves upwardly, the wing E' contacts with the seat *d* and shuts off the flow of water from that side of the sleeve D which is occupied by the wing. By screwing the nipple down, so that the wing is removed from its seat, the water has an uninterrupted flow on all sides.

To control the spray independently of the wing—that is, to make it thicker or thinner—but on all sides, I thread on the upper part of the nipple a vertically-adjustable plug F, whose lower face is concaved and coöperates with the rebent portion of the sleeve D, the concaved face running to the nipple E, so as to leave no obstruction to the free passage of the water.

I am aware that there are many minor changes in the construction, arrangement, and combination of the several parts of my invention which could be made and substituted for those herein shown and described without in the least departing from the nature and principle of my invention.

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

1. In a sprinkler, the combination with a suitable base, of a sleeve mounted thereon and having a seat formed on its exit end, a hollow stem adjustably mounted in the base, a wing on said stem for coöperating with the seat to shut off one side of the spray, and an adjustable plug mounted on the stem for co-operating with the seat to regulate the thickness of the spray; substantially as described.

2. In a sprinkler, the combination with a suitable base, of a sleeve mounted thereon,

and having a seat at its exit end, a stem located within the sleeve, a tapered plug arranged on the stem and adapted to cooperate with the seat on the sleeve to regulate the  
5 thickness of the spray, said plug and seat being adjustable relative to each other, and means for blinding or shutting off a portion of the spray; substantially as described.

In testimony whereof I hereunto affix my signature, in presence of two witnesses, this 10  
9th day of March, 1895.

BARNEY H. SANDERS.

Witnesses:

F. R. CORNWALL,  
HUGH K. WAGNER.