

(No Model.)

B. F. WARNER.
HOSE COUPLING.

No. 459,951

Patented Sept. 22, 1891.

Fig. 1.

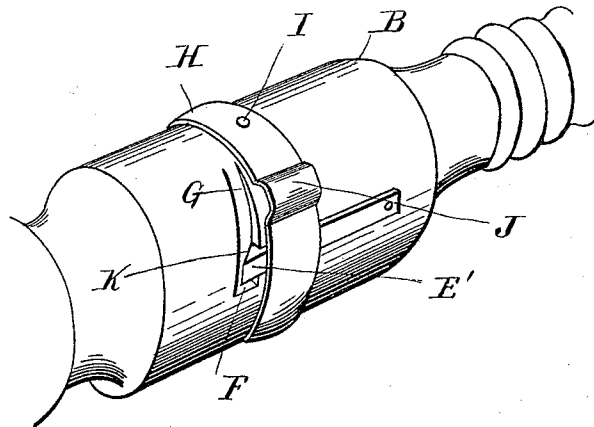


Fig. 2.

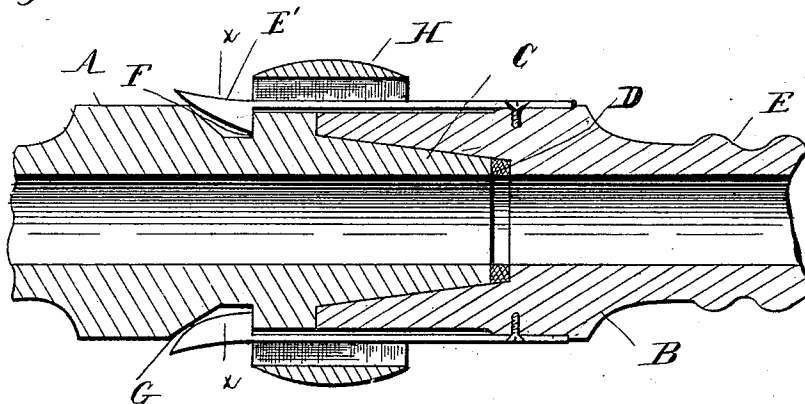
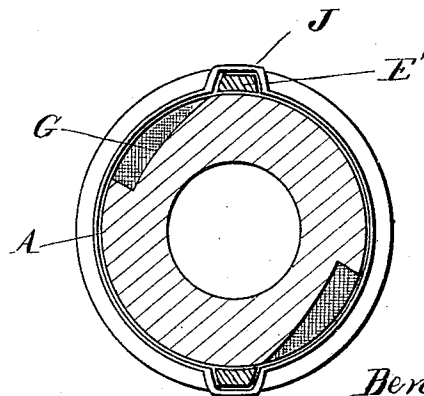


Fig. 3.



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UNITED STATES PATENT OFFICE.

BENJAMIN F. WARNER, OF BRONSON, MICHIGAN.

HOSE-COUPLING.

SPECIFICATION forming part of Letters Patent No. 459,951, dated September 22, 1891.

Application filed June 4, 1891. Serial No. 395,136. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN F. WARNER, a citizen of the United States, residing at Bronson, in the county of Branch and State of Michigan, have invented certain new and useful Improvements in Hose-Couplers, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to new and useful improvements in hose-couplers; and it consists in the peculiar construction of the coupling-head and the means of securing said coupling-heads together, all as more fully hereinafter described.

15 In the drawings, Figure 1 is a perspective view of my improved coupler. Fig. 2 is a vertical central longitudinal section thereof, and Fig. 3 is a cross-section thereof on line *x* of Fig. 2.

20 A and B are two coupling-heads, the head A being provided with a forwardly-extending conical nipple C, adapted to enter a corresponding recess in the head B, at the forward end of which is a suitable packing D. Each head is provided with a nipple C, to which the hose may be secured. In coupling, the nipple C is engaged in a recess in the head B, and the two parts are secured together by means of spring-hooks E', secured upon the head B and adapted to engage in notches F upon the head A. These notches are provided with an inclined bearing G, extending to the circumference of the head A.

35 H is a locking-ring, rotatably secured to the head B, its rotation being limited by means of the pins I, engaging in suitable slots in the head. This ring is provided with the enlargements J at opposite sides of a depth corresponding substantially to the depths of the hook E'.

40 To couple the parts of a coupler thus constructed, I turn the ring H until the enlargements J are opposite the spring-hook E'. Then in bringing the two parts together the hooks

will engage into the notches F and hold the heads A and B from being separated, the hooks being provided with the inclined face K. The upward movement of the hook is permitted by the fact that they enter the enlargements J. Now, to lock them in their adjusted position I turn the ring H until the enlargements J move to one side of the spring, when the body portion of the ring will prevent the disengagement of the hooks from the notch. To disengage the parts I turn the ring so that the enlargement J is opposite the spring-hook, and then by rotating the heads in relation to each other the hooks will run up the incline G until they reach the plain portion of the circumference of the head. when they may be separated. I am thus enabled to disengage them by the rotation and without handling the hooks.

What I claim as my invention is—

1. In a hose-coupler, the combination, with two coupling-heads, one of which is provided with laterally-inclined notches, of spring-hooks on one head engaging in said notches, and a rotary ring having enlargements in which the spring-hooks enter when the ring is turned, substantially as described.

2. A hose-coupler comprising the following elements: the heads A B, engaging one with the other, hooks E', notches F, ring H, enlargements J, and inclined bearing G, substantially as described.

3. In a hose-coupler, the combination of the head A, having nipples C, the head B, provided with a corresponding recess, packing D, spring-hooks E', notches F, inclined bearing G, ring H, enlargements J, and pin I, substantially as described.

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

BENJAMIN F. WARNER.

Witnesses:

JAMES R. PARKE,
MARTIN A. BARNES.