No. 620,497. Patented Feb. 28, 1899.

H. E. REINISCH.

HOSE COUPLING.

(Application filed Mar. 30, 1898.)

(No Model.)

Fig. 1.

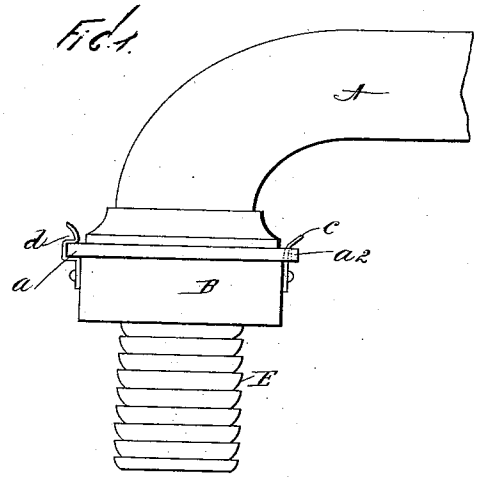
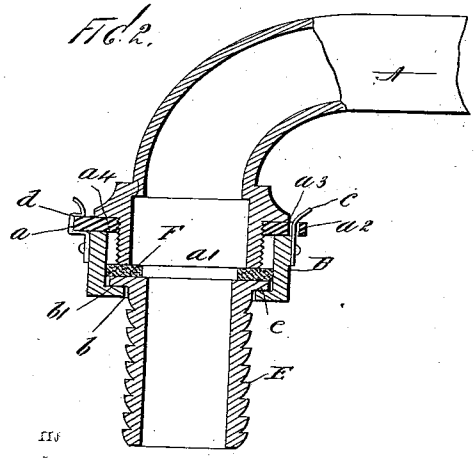


Fig. 2.



WITNESSES

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HARRY E. REINISCH, OF NEW YORK, N. Y.

HOSE-COUPLING.

SPECIFICATION forming part of Letters Patent No. 620,497, dated February 28, 1899.

Application filed March 30, 1898. Serial No. 675,703. (No model.)

To all whom it may concern:

Be it known that I, HARRY E. REINISCH, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Hose-Couplings, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to hose-couplings; and it has for its object to provide a simple and improved device of this character by which the hose can be more readily and conveniently detached from its pipe connection.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by the same letters of reference in each of the views, and in which—

Figure 1 is a side view of the improved coupling, and Fig. 2 is a longitudinal sectional view of the same.

Referring to the drawings, A designates a pipe which is preferably of the elbow form and which is provided adjacent to one end with an annular shoulder or portion a, and the end a' thereof, adjacent to which said shoulder or projection is formed, is screw-threaded. Mounted on the screw-threaded end a' of the pipe is a screw-threaded ring a^2, provided in one side thereof with a perforation or opening a^3, and I also provide a pipe-coupling section E, with which the hose is adapted to be connected and which, as shown in the drawings, is provided at its inner end with an annular flange or rim e.

Between the annular flange e of the pipe-coupling E and the screw-threaded end a' of the tube A is placed an annular washer or packing-ring F, and the said pipe-coupling section E is provided with an annular cap B, having an inwardly-directed annular flange b at one end, which forms a circular opening through which the coupling-section E passes and which operates in connection with the flange e on said coupling-section to hold said section in place and to press the same against the annular washer or packing F.

The annular cap B is provided at one side with a hooked finger c, which passes through the perforation or opening a^3 in the ring a^2 and serves as a hinge, and said cap is provided at the opposite side with a spring-hook D, which catches over the said ring a^2 and holds said cap and the coupling-section E in place and in the proper relative position with reference to the tube A. By means of this construction the coupling-section E may be quickly and easily secured to the tube A whenever desired and as readily and conveniently detached therefrom.

The hose may be secured to the section E in the usual or any desired manner, and the washer or packing F may be composed of any desired material, the object thereof being to provide a water-tight coupling.

This device is simple in construction and operation, and the coupling-section E may be detached from the pipe A by simply pressing outwardly on the end of the spring-catch d, when the annular cap B will swing to one side on the hooked finger c, which connects it with the ring a^2.

Although I have shown and described the annular cap B and coupling-section as being formed separately, it will be apparent that other forms of construction may be provided, and my invention is not limited to the exact construction, combination, and arrangement of parts herein described; but I reserve the right to make all such alterations therein as fairly come within the scope of the invention.

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

1. In a pipe-coupling, the combination with a pipe, one end of which is screw-threaded and provided with a annular shoulder or projection, of a screw-threaded ring which is adapted to be screwed onto the screw-threaded end of said pipe, and a coupling-section provided with an annular cap having at one side a hooked finger which passes through said ring, and at the opposite side a spring-catch which is adapted to engage with said ring, substantially as shown and described.

2. In a pipe-coupling, the combination with a pipe, one end of which is screw-threaded and provided with an annular shoulder or projection, of a screw-threaded ring which is adapted to be screwed onto the screw-threaded end of said pipe, and a coupling-section pro-

vided with an annular cap having at one side a hooked finger which passes through said ring, and at the opposite side a spring-catch which is adapted to engage with said ring, said coupling-section and said cap being provided with interlocking flanges, substantially as shown and described.

3. In a pipe-coupling, the combination with a pipe, one end of which is screw-threaded and provided with an annular shoulder or projection, of a screw-threaded ring which is adapted to be screwed onto the screw-threaded end of said pipe, and a coupling-section provided with an annular cap having at one side a hooked finger which passes through said ring, and at the opposite side a spring-catch which is adapted to engage with said ring, said coupling-section and said cap being provided with interlocking flanges, and a packing-ring placed between the coupling-section and the screw-threaded end of said pipe, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 28th day of March, 1898.

HARRY E. REINISCH.

Witnesses:
L. M. MULLER,
A. C. MCLOUGHLIN.