(No Model.)

P. E. GUÉRARD.

HOSE COUPLING.

No. 571,361. Patented Nov. 17, 1896.

FIG. 1.

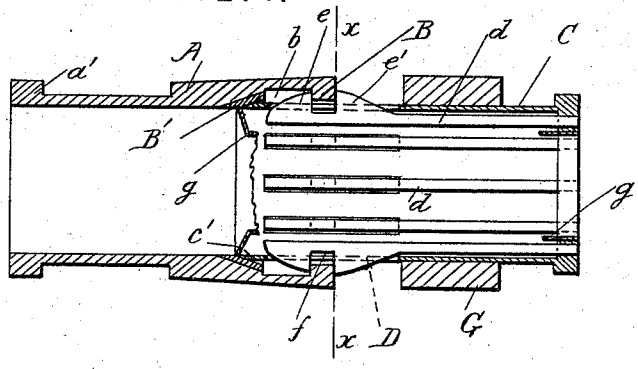


FIG. 2.

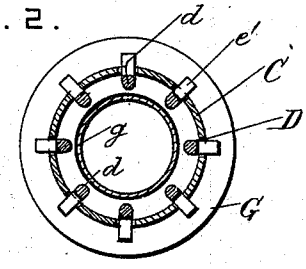
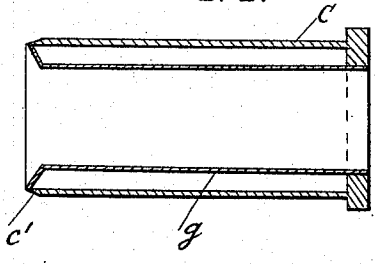


FIG. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

PIERRE ETIENNE GUÉRARD, OF MONTREAL, CANADA, ASSIGNOR OF ONE-HALF TO NAPOLÉON MATHIÈU, OF SAME PLACE.

HOSE-COUPLING.

SPECIFICATION forming part of Letters Patent No. 571,361, dated November 17, 1896.

Application filed May 21, 1896. Serial No. 592,377. (No model.)

To all whom it may concern:

Be it known that I, PIERRE ÉTIENNE GUÉRARD, a citizen of the Dominion of Canada, residing at Montreal, in the district of Montreal and Province of Quebec, Canada, have invented certain new and useful Improvements in Hose-Couplings; 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.

This invention relates to hose-couplings; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a longitudinal section through the hose-coupling with the guard-pipe broken away to show the spring-fingers. Fig. 2 is a cross-section taken on the line *x x* in Fig. 1. Fig. 3 is a longitudinal section through one half of the coupling between the spring-fingers, showing the guard-pipe in position.

A is the outer half of the coupling, which is provided with a cylindrical end portion *a'*, having a shoulder for the end of one section of the hose-pipe to engage with. The front end of the part A has an internal shoulder B, a conical ring B' of india-rubber or other soft material, and an annular groove *b* between the said ring and shoulder. The ring B' is secured in the part A in any approved manner.

C is the inner half of the coupling provided with a shoulder for the other section of the hose-pipe to engage with in the usual manner. The front end of the part C is provided with a conical portion *c'* for bearing against the ring B' when the parts A and C are pressed together. The part C has a series of longitudinal slots D, and *d* is a series of spring-fingers having their rear ends secured to the rear end of the part C in any approved manner.

The fingers *d* each have two inclined projections *e* and *e'*, which project through the slots D, and *f* is a notch between the said projections. The outer surfaces of the projections are inclined in opposite directions, and the projections have their high ends next to the notch between them.

G is a ring which is slidable on the part C of the coupling behind the projections *e'*. When the parts of the coupling are pressed together, the projections *e* spring into the groove *b* and hold the two parts of the coupling securely connected together. When the sections of the hose-pipe are to be separated, the ring G is slid upon the projections *e'*, so that the projections *e* are pressed inward until clear of the shoulder B. This permits the halves of the coupling to be separated.

A guard-pipe *g* is secured inside the part C to prevent water from passing out of the slots D.

What I claim is—

1. In a hose-coupling, the combination, with one half of the coupling provided with a shoulder at its front end and an annular groove behind the said shoulder; of the other half of the coupling provided with a series of longitudinal slots, a series of spring-fingers each having two inclined projections extending through the slots, and notches between the said projections; and a slidable ring for pressing inward the said spring-fingers, substantially as set forth.

2. In a hose-coupling, the combination, with one half of the coupling provided with a conical ring of soft material, a shoulder at its front end, and an annular groove between the said shoulder and ring; of the other half of the coupling provided with a conical front end for bearing against the said ring, a series of longitudinal slots, a series of spring-fingers each having two inclined projections extending through the said slots, and notches between the said projections; and a slidable ring for pressing inward the said spring-fingers simultaneously and releasing the halves of the coupling, substantially as set forth.

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

PIERRE ETIENNE GUÉRARD.

Witnesses:
F. C. LABERGE,
T. J. PATENAUDE.