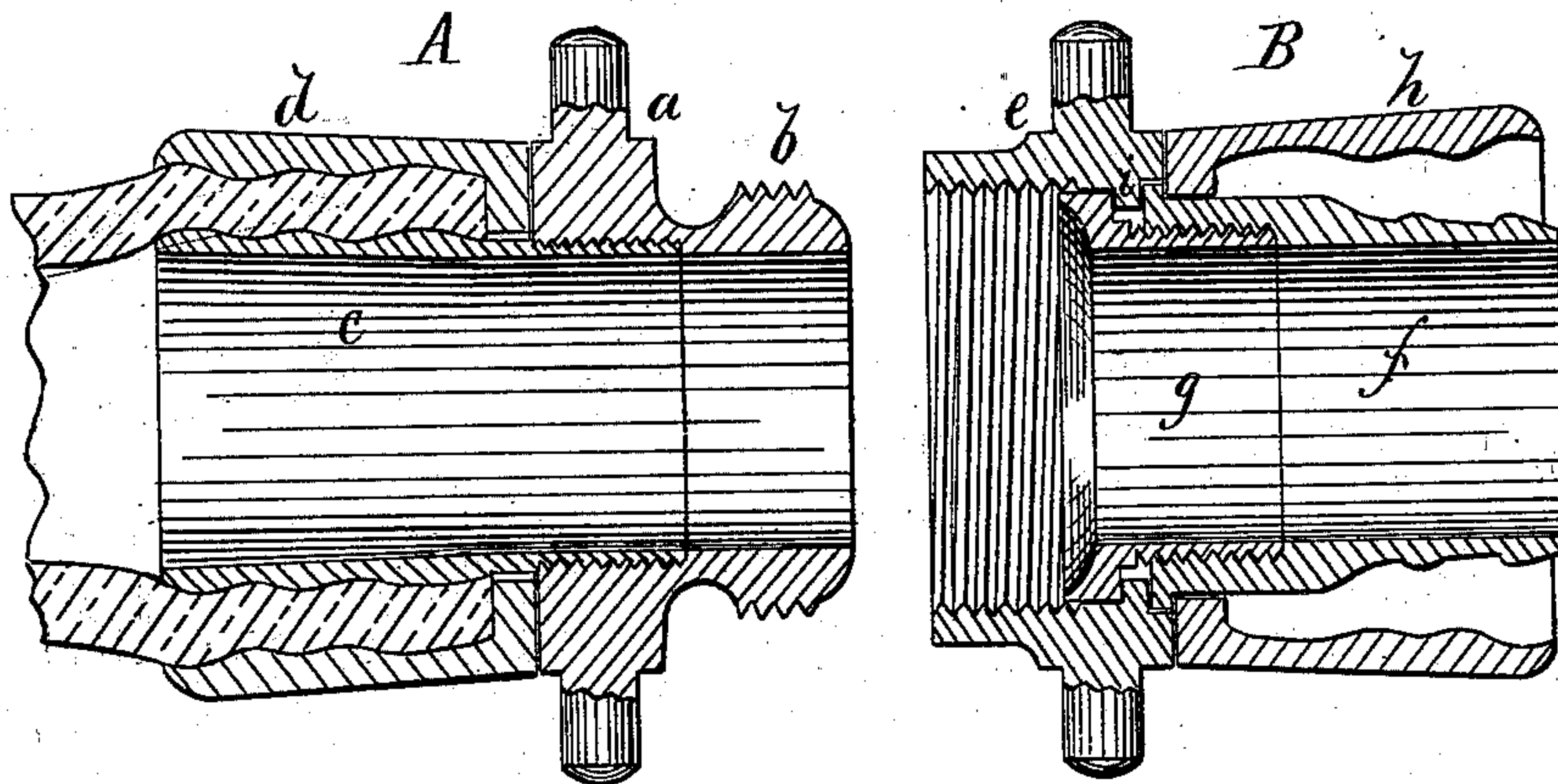


F. STEWART.
Hose-Coupling.

No. 219,032.

Patented Aug. 26, 1879.



WITNESSES:

Henry N. Miller
C. Sedgwick

INVENTOR:

F. Stewart

BY

Munn & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

FREDERICK STEWART, OF ST. LOUIS, MISSOURI.

IMPROVEMENT IN HOSE-COUPPLINGS.

Specification forming part of Letters Patent No. **219,032**, dated August 26, 1879; application filed June 20, 1879.

To all whom it may concern:

Be it known that I, FREDERICK STEWART, of St. Louis, State of Missouri, have invented a new and Improved Hose-Coupling, of which the following is a specification.

The object of my invention is to construct hose-couplings so that the water-passage will be unobstructed and of the full inner diameter of the hose; also, to render the joint of the coupling water-tight without using packing-rings.

My invention will be described in connection with the accompanying drawing, wherein the two portions of the coupling are shown by a longitudinal section.

A is the male portion of the coupling, consisting of the ring *a*, formed with the projecting threaded portion *b* and with the neck-piece *c*, attached by a screw-thread within the ring. Around the neck-piece is the band *d*, between which and the piece *c* the hose is clamped by spreading the piece *c*.

B is the female portion of the coupling, consisting of the ring *e*, having an interior thread, and fitted with the neck-piece *f*, that is held to the ring *e* by the interior screw-collar, *g*. *h* is the band for clamping the end of the hose.

The ring *e* is formed with an interior annular shoulder, *i*, for the flanged ends of the neck-piece *f* and collar *g*, whereby the parts are connected, and the ring *e* may be turned for uniting the parts A B of the coupling.

It will be seen that by this construction the

water-passage through the coupling is smooth and unobstructed, and of the full diameter of the hose.

To render the joint water-tight the screw end *b* of the portion A is ground to a rounded or convex form, and its seat in the screw-collar *g* of the portion B is ground to a corresponding concave form, so that without the use of a gasket or intervening packing the joint will be tight.

The outer surface of the neck-pieces *c f* and interior surface of the bands *d h* are ribbed or corrugated, so that when the neck-pieces are expanded with a suitable instrument the hose will be held securely. By having the neck-pieces made separately from the rings and attached as shown, they can be removed in case of injury and others substituted, and the more costly part of the coupling be thereby saved.

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

In a hose-coupling, the combination of the male portion A, formed with the projection *b*, and fitted with the neck-piece *c* and band *d*, and the female portion B, having an interior thread, and fitted with the neck-piece *f*, screw-collar *g*, and band *h*, substantially as described and shown, and for the purposes set forth.

FREDERICK STEWART.

Witnesses:

WM. J. GREENWOOD,
HENRY BRUNING.