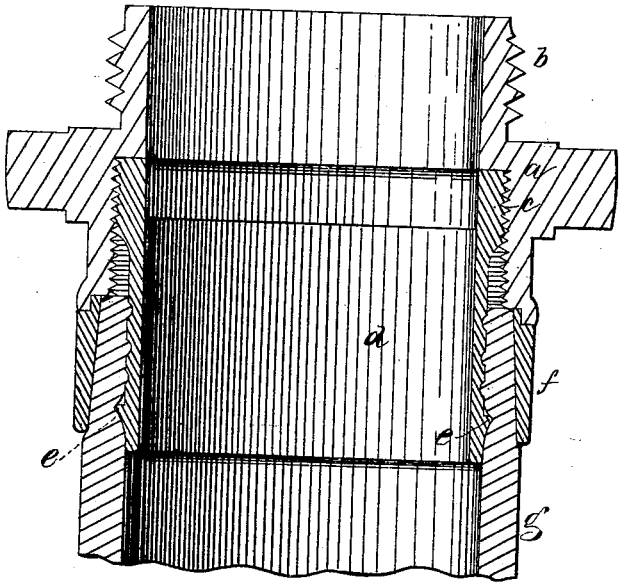
A. J. MORSE.
Hose-Coupling.

No. 217,894. Patented July 29, 1879.



Witnesses.
W. J. Pratt.
L. H. Latimer.

Inventor.
Andrew J. Morse
per Lovejoy & Gregory Atty's.

UNITED STATES PATENT OFFICE.

ANDREW J. MORSE, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN HOSE-COUPLINGS.

Specification forming part of Letters Patent No. **217,894**, dated July 29, 1879; application filed June 28, 1875.

To all whom it may concern:

Be it known that I, ANDREW J. MORSE, of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improved Hose-Coupling, of which the following is a specification.

This invention relates to improvements in hose-couplings; and consists in a tail-piece and a threaded end or coupling-section combined with and operating a binding-ring, so that the movement of the binding-ring and tail-piece with relation to each other, by the action of the coupling-section, causes the tail-piece and binding-ring to grasp the hose firmly between them.

The drawing represents a sectional view of a coupling provided with my improvement.

In the drawing, *a* denotes one of the coupling-sections, that one provided with an external screw-thread, *b*, to receive a coupling-section provided with an internal screw-thread, and adapted to fit the thread *b*, as usual, such internal screw-threaded section being provided with a tail-piece and binding-ring, corresponding with the like parts attached to the coupling-section *a*. This coupling-section *a* is provided with an internal threaded part, *c*, adapted to fit the screw-threaded end of the tail-piece *d*, provided on its outside with a projection, *e*, extending, preferably, entirely around the lower portion of the tail-piece; and the tail-piece may also be provided or not with other annular grooves or projections between the projection *e* and the screw-threaded part *c*.

The binding-ring *f* is shown as a tapering ring, being larger at bottom than at top, and being preferably provided with a shoulder at its upper end to meet a shoulder on the lower end of the coupling-section *a*. The tail-piece might also be made tapering, growing larger at or toward its lower end.

The tail-piece *d* will be inserted within the hose, and then the binding-ring *f* will be placed over the end of the tail-piece and down onto the hose, and then the coupling-section *a* will be screwed on the tail-piece. This action will cause the lower part of the coupling-section to force the binding-ring *f* down on the outside of the hose, and will closely confine the hose between the binding-ring and tail-piece, the projection *e* embedding itself into the substance of the hose, as indicated.

The hose used in connection with this coupling may be of any well-known or suitable manufacture or class, such as leather, cloth, india-rubber, or compounds of either with the other.

In my invention the binding-ring is forced down to bind the hose; and the gist of this invention is that the binding-ring is operated by the coupling-section.

I do not desire to limit myself to the exact construction of the parts shown, and may use any equivalent.

I claim—

The coupling-section, provided with an internal shoulder and internally screw-threaded to engage the tail-piece, combined with the externally screw-threaded tail-piece and the external binding-ring, *f*, to operate as shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ANDREW J. MORSE.

Witnesses:

G. W. GREGORY,

S. B. KIDDER.