(No Model.)

C. CHADWICK.

HOSE COUPLING.

No. 265,218. Patented Sept. 26, 1882.

Fig. 1.

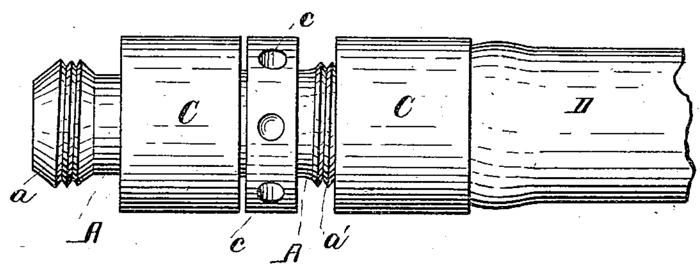


Fig. 2.

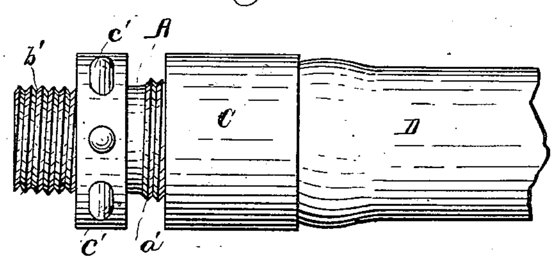
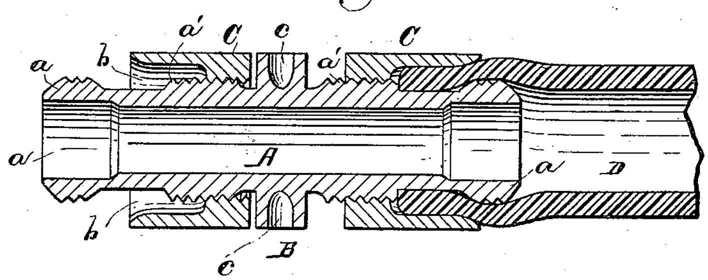


Fig. 3.



Witnesses,
Henry Frankfurter,
P. B. Halpenny.

Inventor.
Charles Chadwick
per. Gridley & Co
his Attorneys.

N. PETERS. Photo-Lithographer. Washington, D. C.

UNITED STATES PATENT OFFICE.

CHARLES CHADWICK, OF HANNIBAL, MISSOURI, ASSIGNOR OF ONE-HALF TO PETER B. GROAT, OF SAME PLACE, AND ANDREW McNALLY, OF CHICAGO, ILLINOIS.

HOSE-COUPLING.

SPECIFICATION forming part of Letters Patent No. 265,218, dated September 26, 1882.

Application filed June 19, 1882. (No model.)

To all whom it may concern:

Be it known that I, CHARLES CHADWICK, of Hannibal, in the county of Marion and State of Missouri, have invented certain new and useful Improvements in Hose-Couplings, of which the following, in connection with the accompanying drawings, is a specification.

In the drawings, Figure 1 is a side view of a double hose-coupling embodying my invention. Fig. 2 is a like representation of a single coupling, and Fig. 3 is a central longitudinal section of the coupler shown in Fig. 1.

Like letters of reference indicate like parts.

A represents a tubular piece or barrel, upon the ends of which are bulbs or enlargements *a a*, screw-threaded exteriorly by preference.

B is a rigid or fixed stop or collar on the central part of the barrel A. Near each side of the stop or collar B are the screw-threaded enlargements or shoulders *a' a'*.

C C are sleeves, clamps, or thimbles, having an internal screw-thread, and run upon the enlargements *a' a'*. Only a portion of the sleeves C C is screw-threaded, as shown, and that portion is at or near the ends next or nearest to the collar B. The unthreaded interior portions of the sleeves C C are not in contact with the barrel A, a considerable space, *b*, existing between that part of the sleeves and the barrel, as is clearly shown in Fig. 3. This space is intended to be about equal to the thickness of the hose to be coupled.

D represents the hose.

In the perimeter of the collar or stop B are depressions or pockets *c c*.

To apply this coupler to use for the purpose for which it is intended, I grasp the collar B with a spanner or tool having small pins to enter the pockets *c c*, so that the coupler may be firmly held while the clamps C C are being turned. I may here state, however, that I would regard pins *c' c'* upon the collar B as the equivalents of the pockets *c c*, and when such pins are used the spanner should have holes to receive them. Before applying the hose the clamps C C should be set back to or nearly to or against the collar B. The hose is then pushed over the bulb *a* upon one end of the barrel until the end of the hose reaches or nearly reaches the shoulder formed by the enlargement *a'*. By this means, while the end of the hose will be about its normal size, it will be stretched or bulged out a little way from the end by means of the bulb *a*, as is clearly indicated in Fig. 3. I now screw down the clamp C, or turn it so that its interior smooth portion will be crowded or clamped upon the hose when the clamp reaches the bulging part formed by the bulb *a*. It will be perceived that the hose will by this means be very tightly clamped and firmly secured to the coupler. To fasten another section of hose to the coupler, I proceed in the manner already described, thus coupling together the sections, so as to make an air and water tight joint. Sections of lead pipe may also be coupled in like manner.

In order that the clamps C C may not injure the hose or pipe, I bevel off the edges of the clamps which work against the parts to be coupled, as shown in Fig. 3.

When the coupler is to receive the end of only one section of the hose or pipe the bulb *a* and sleeve C upon the other end of the barrel B are not essential; but to adapt the coupler in such cases to be applied to a fixed part—such as a hydrant or faucet—I make it screw-threaded upon the end not adapted to receive the hose or pipe, as indicated in Fig. 2 at *b'*, which represents a single coupler.

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

1. The combination of the tubular part or barrel A, having on its ends the enlargements or bulbs *a a* and on its exterior surface the screw-threaded enlargements or portions *a' a'*, in combination with the sleeves or clamps C C, internally threaded to engage the parts *a' a'*, and having interiors otherwise smooth, and adapted to receive between them and the said barrel a hose or pipe, substantially as and for the purposes specified.

2. The barrel A, having thereon the stop or collar B, the screw-threaded enlargement *a'*, and the bulb or enlargement *a*, in combination with the screw-sleeve or clamp C, run upon the part *a'* and adapted to clamp or pinch the hose or pipe against the bulb *a*, substantially as and for the purposes specified.

CHARLES CHADWICK.

Witnesses:

N. COWLES,

J. H. AVERY.