

(No Model.)

E. & A. DRAUDT.
HOSE COUPLING.

No. 472,342.

Patented Apr. 5, 1892.

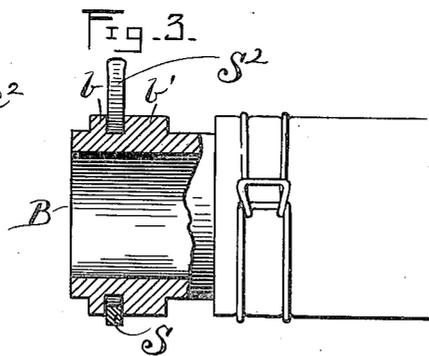
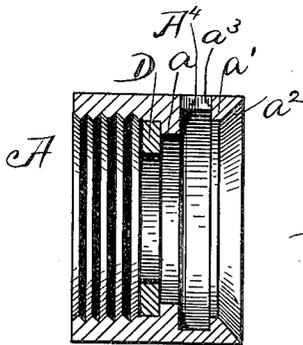
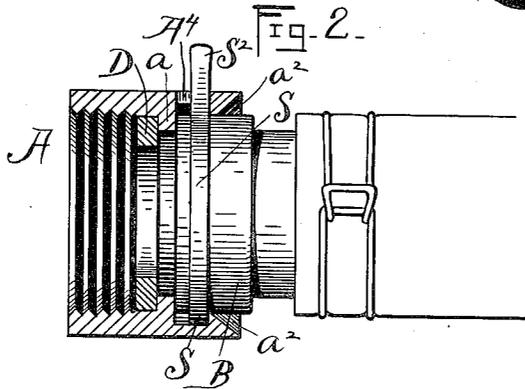
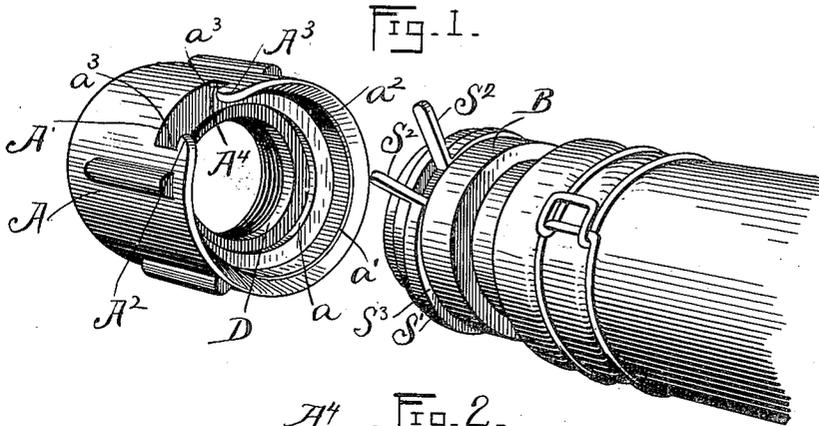
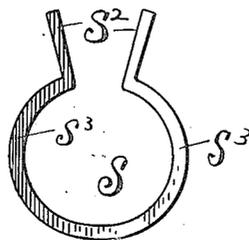


Fig. 4.



WITNESSES.

E. Byron Gilchrist.
[Signature]

INVENTORS.

Edward Draudt
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[Signatures]

UNITED STATES PATENT OFFICE.

EDWARD DRAUDT AND ALBERT DRAUDT, OF CLEVELAND, OHIO.

HOSE-COUPLING.

SPECIFICATION forming part of Letters Patent No. 472,342, dated April 5, 1892.

Application filed November 4, 1891. Serial No. 410,887. (No model.)

To all whom it may concern:

Be it known that we, EDWARD DRAUDT and ALBERT DRAUDT, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Hose-Couplings; and we 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 pertains to make and use the same.

Our invention relates to improvements in hose-couplings, the object being to produce a simple, durable, and comparatively inexpensive coupling, and one that can be easily manipulated.

With this object in view our invention consists in certain novel features of construction and in combination of parts hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in perspective showing the two parts of our improved coupling disconnected. Fig. 2 shows the parts of the coupling connected, one part being shown in elevation and the other part in section. Fig. 3 shows a longitudinal central section of the parts disconnected. Fig. 4 is an elevation of the spring of the locking mechanism detached.

Our improved coupling comprises a female part A and a male part B. Part A has internal (preferably annular) shoulders $a a'$ and is slotted, as at A' , the slot extending from the edge of the receiving end of part A approximately to shoulder a and being contracted, as at A^2 , forming shoulders $a^3 a^3$, and the slot has, preferably, a flaring mouth, being gradually increased in width from the contracted portion toward the entrance of the slot, as shown at A^3 .

Part B of the coupling has external (preferably annular) shoulders $b b'$ and has an annular spring S mounted thereon between said shoulders, the ends of said spring terminating in outwardly-projecting members S^2 . Spring S in its normal condition protrudes somewhat at the periphery of part B, as shown at S' .

In coupling the respective parts of the coupling male part B is adapted to enter female part A, slot A' of part A being adapted to receive the outwardly-projecting members S^2 of spring S, part A compressing spring S against its seat between adjacent shoulders $b b'$ dur-

ing the act of coupling and being adapted to maintain the same compressed until the interval between shoulders $b b'$ of part B registers with the interval between shoulders $a a'$ of part A, whereupon spring A expands or spreads to its normal condition, slot A' of part A being sufficiently enlarged, as at A^4 , to accommodate the spreading of the outwardly-projecting members S' of the spring, and it is manifest that spring S, in conjunction with shoulders a' and a^3 of part A, will securely lock the two parts of the coupling together. Spring S having, preferably, flat sides, as at S^3 , the entrance to part A should be beveled or rounded, as at a^3 , whereby, in conjunction with the flaring mouth of slot A' aforesaid, the compression of spring S aforesaid, and consequently the coupling of the parts, is greatly facilitated.

In uncoupling the parts, by pressing members S^2 of spring S toward each other with the fingers, so as to compress spring S, as required, the parts of the coupling can be readily separated.

If the coupling is to be employed for connecting two sections of hose, an annular disk of packing (not shown) is interposed between shoulder a of part A and part B of the coupling; but if, as shown, the coupling is to be employed for attaching a hose to a hydrant, for instance, the packing, as at D, is interposed between shoulder a , aforesaid, and the screw-threaded portion of part A, that is adapted to screw onto the nozzle of the hydrant, and the forward end of part B should be adapted to fit within shoulder a against packing D. Hence it will be observed that in the case last referred to but one disk of packing is required to make a tight joint between the parts of the coupling and between the coupling and nozzle to which the coupling is attached.

Our improved coupling, it will be observed, is simple in construction, easy of manipulation, and comparatively inexpensive.

What we claim is—

1. A hose-coupling comprising a male part and a female part, the latter being adapted to receive the former, the female part having internal shoulders and the male part having external shoulders, with a spring mounted thereon between the said external shoulders, the

body of the spring protruding in its normal condition at the periphery of the male part, the construction of parts being such that during the act of coupling said spring is compressed and maintained in such compressed condition by the female part of the coupling until the interval between the aforesaid external shoulders of the male part registers with the interval between the aforesaid shoulders of the female part, substantially as set forth.

2. A hose-coupling comprising a male and a female part, the latter being adapted to receive the former, the male part having shoulders externally and the female part having internal shoulders, the male part having a spring mounted thereon between its said external shoulders, the ends of said spring terminating in outwardly-projecting members, and the spring in its normal condition protruding

at the periphery of the male part, the female part being adapted during the act of coupling to compress and maintain said spring in its compressed condition until the interval between the aforesaid external shoulders of the male part have registered with the interval between the aforesaid internal shoulders of the female part, the female part being slotted to receive and accommodate the outwardly-projecting members of the spring, substantially as set forth.

In testimony whereof we sign this specification, in the presence of two witnesses, this 3d day of October, 1891.

EDWARD DRAUDT.
ALBERT DRAUDT.

Witnesses:

C. H. DORER,
WARD HOOVER.