

*J. Kerns,
Hose Coupling.*

N^o 68,993.

Patented Sept. 17, 1867.

Fig: 1.

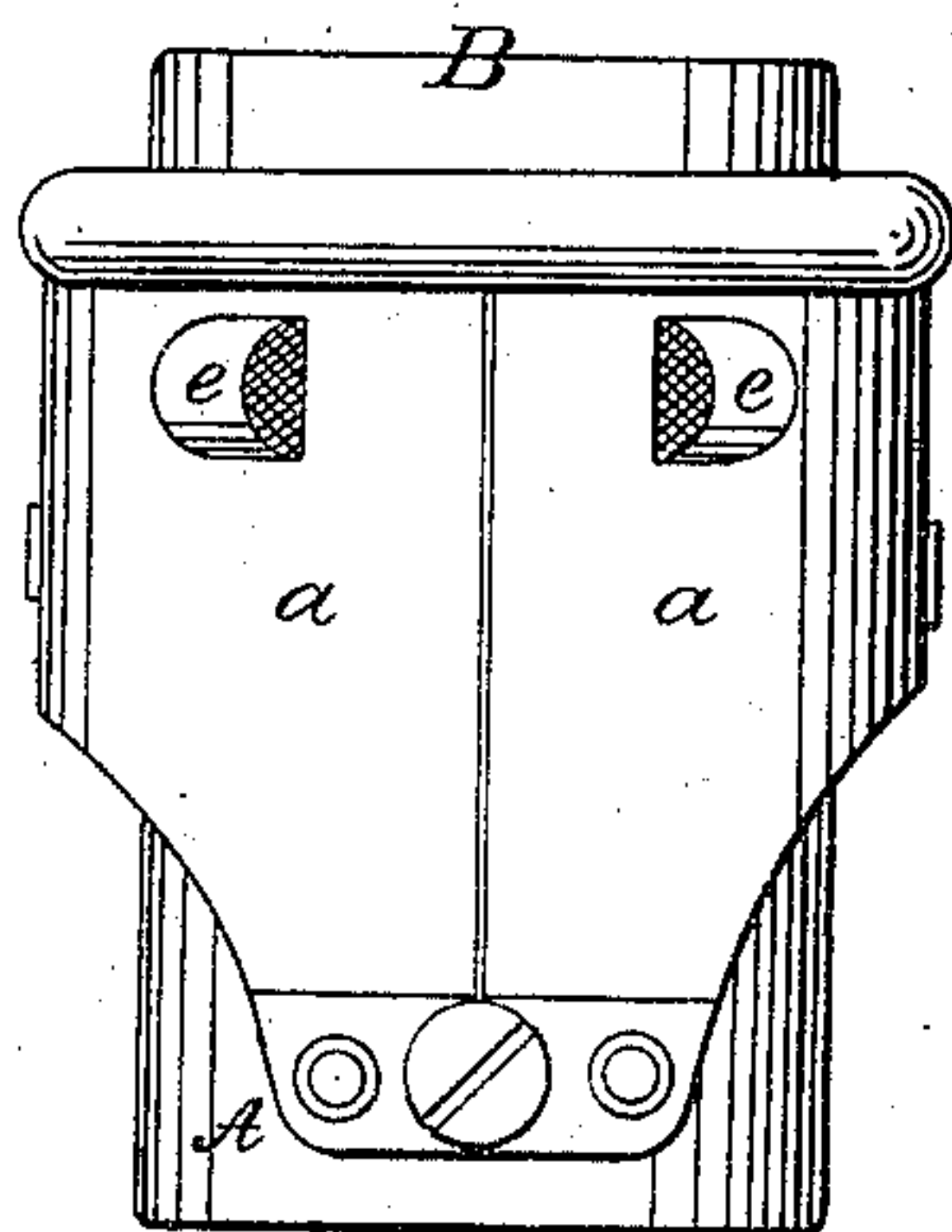
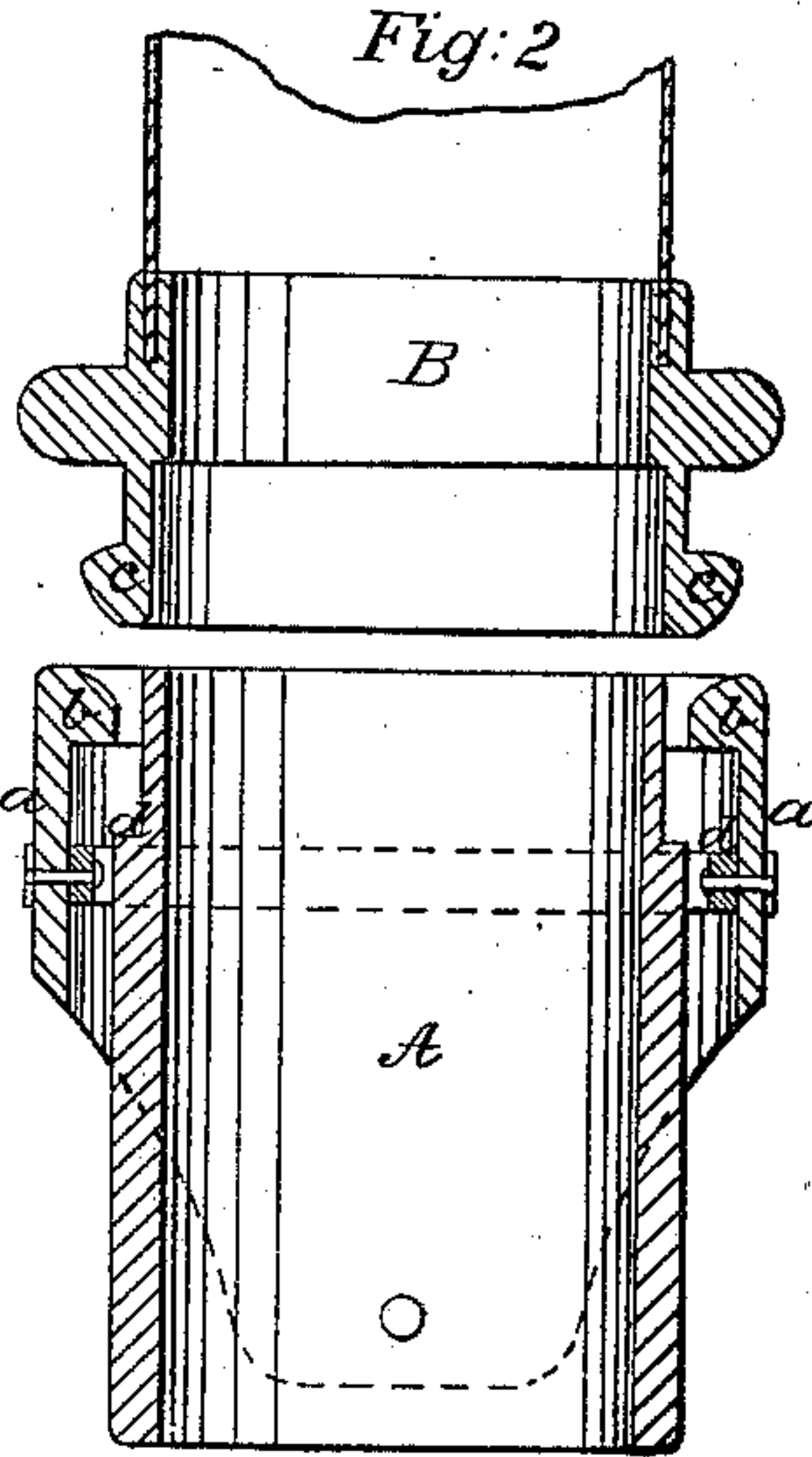


Fig: 2



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United States Patent Office.

JOHN KERNS, OF NEW YORK, N. Y.

Letters Patent No. 68,993, dated September 17, 1867.

IMPROVEMENT IN HOSE-COUPPLINGS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOHN KERNS, of the city, county, and State of New York, have invented a new and improved Hose-Coupling; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to a hose-coupling of such construction that two pieces of hose can be secured to each other by its use without a wrench, or even without turning a ring or a nut for the purpose. All that is required to connect two ends of hose is to hold them together, and push one towards the other, and the connection will be complete, safe, and strong.

The invention consists in the use of two or more jaws, which are pivoted to the metal tube which forms one part of the coupling. These jaws are provided with hooks at their ends, and fit over a projecting ring on the end of the other piece of tube. The jaws are pressed toward the tube by means of springs, and are spread, when they are to lock the coupling, by the rounded rim of the opposite tube coming in contact with the rounded edge of the hooks. In the annexed drawings my invention is illustrated—

Figure 1 being a side view of my improved coupling, and

Figure 2 a sectional view of the same.

Similar letters of reference indicate corresponding parts.

A represents the tube on one end of the hose, and B the end of the opposite hose. To the former are hinged two or more jaws *a*, with hook-shaped ends *b*, which engage the rim *c* projecting from the end of B, as shown in fig. 2. The jaws are pressed together, or towards the tube, by means of an India-rubber or other spring, *d*.

This device is self-locking, as when the end of tube B is pressed against the end of tube A, it will spread the jaws apart, and the latter will then spring over the rim *c*, and thus securely hold the two ends of hose together. For disengaging the two pieces of hose, it will be necessary to draw the jaws *a* apart, for which purpose handles *e e* are provided on the jaws, as is shown in fig. 1.

I claim as new, and desire to secure by Letters Patent—

1. The combination of the tube A, jaws *a a*, with hooks *b b*, springs *d*, tube B, with shoulders *c*, as and for the purpose specified.

2. The jaws *a a* on the tube A, provided with hooks *b b*, fitting into a groove in the tube B, and forced together by a spring or springs *d*, arranged between the jaws *a a* and tube A, as herein shown and described.

JOHN KERNS.

Witnesses:

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