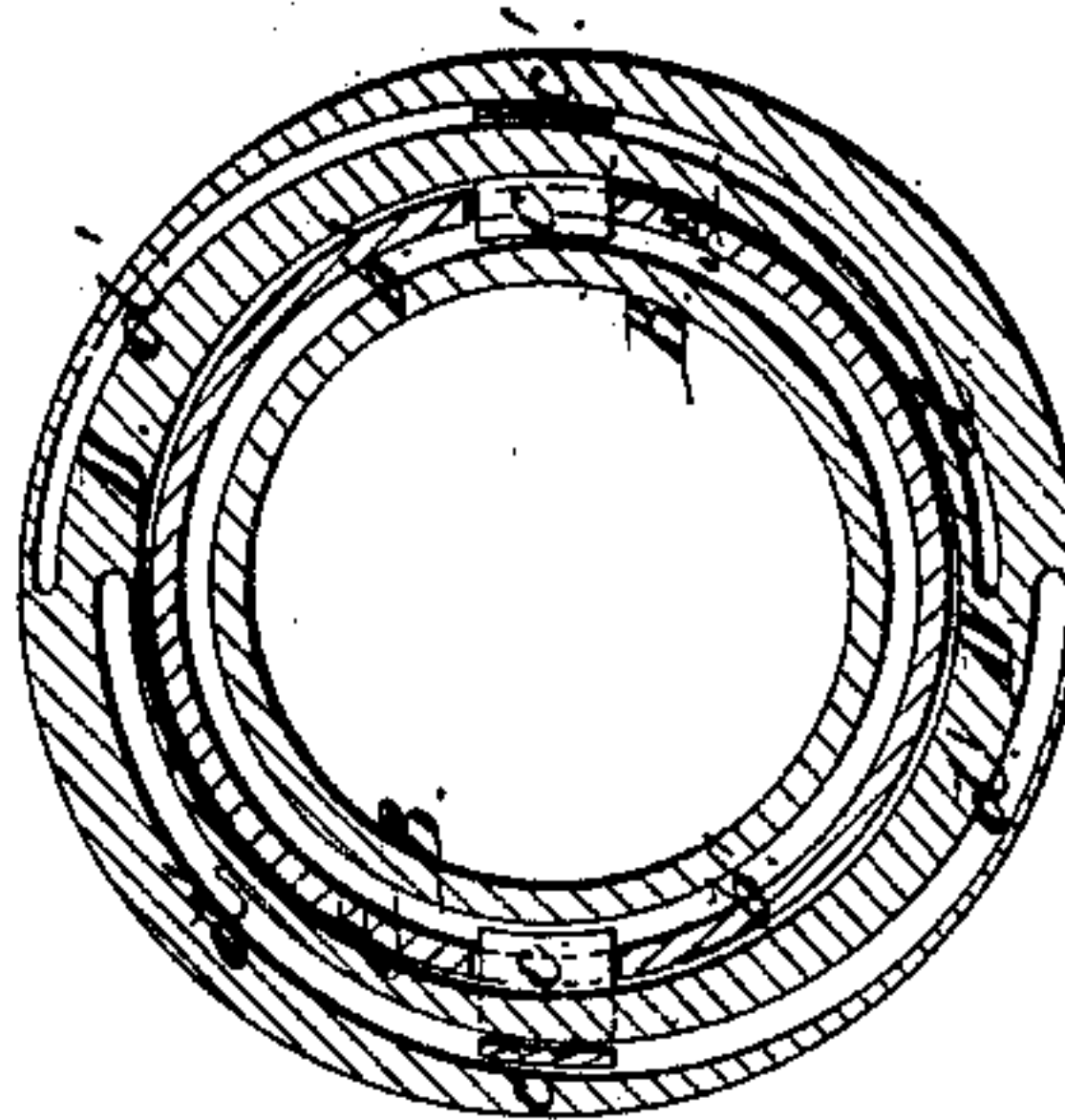
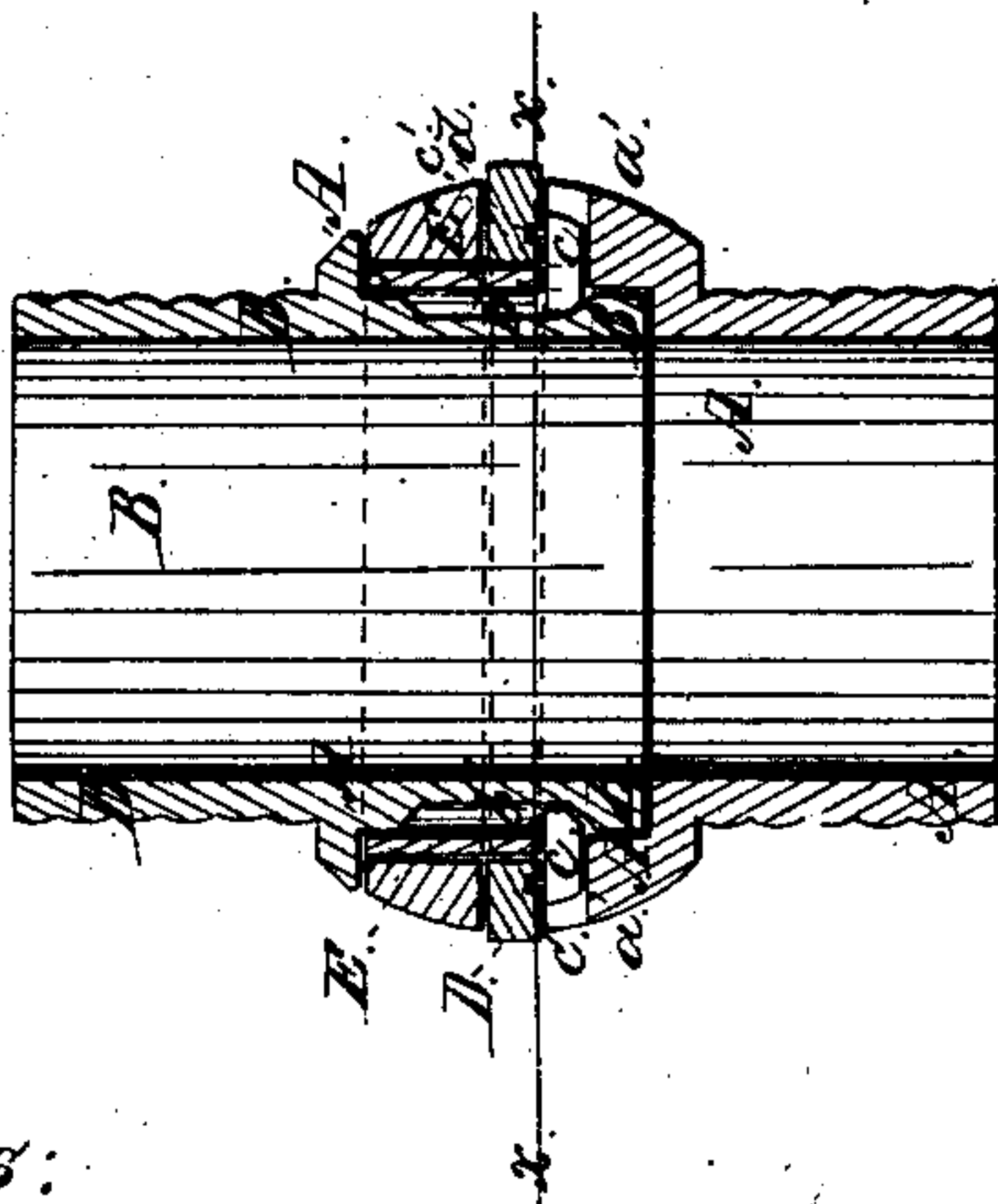
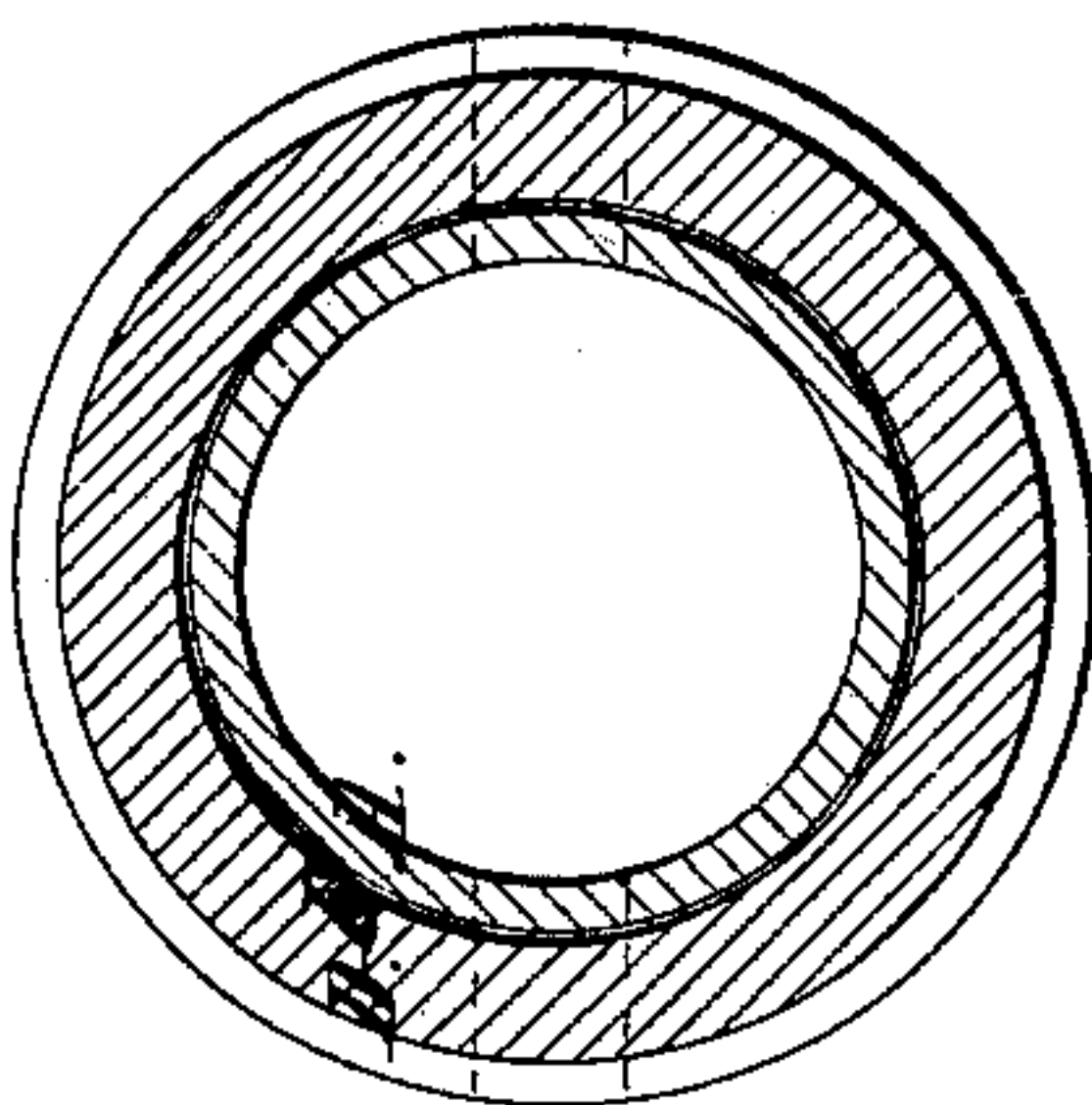
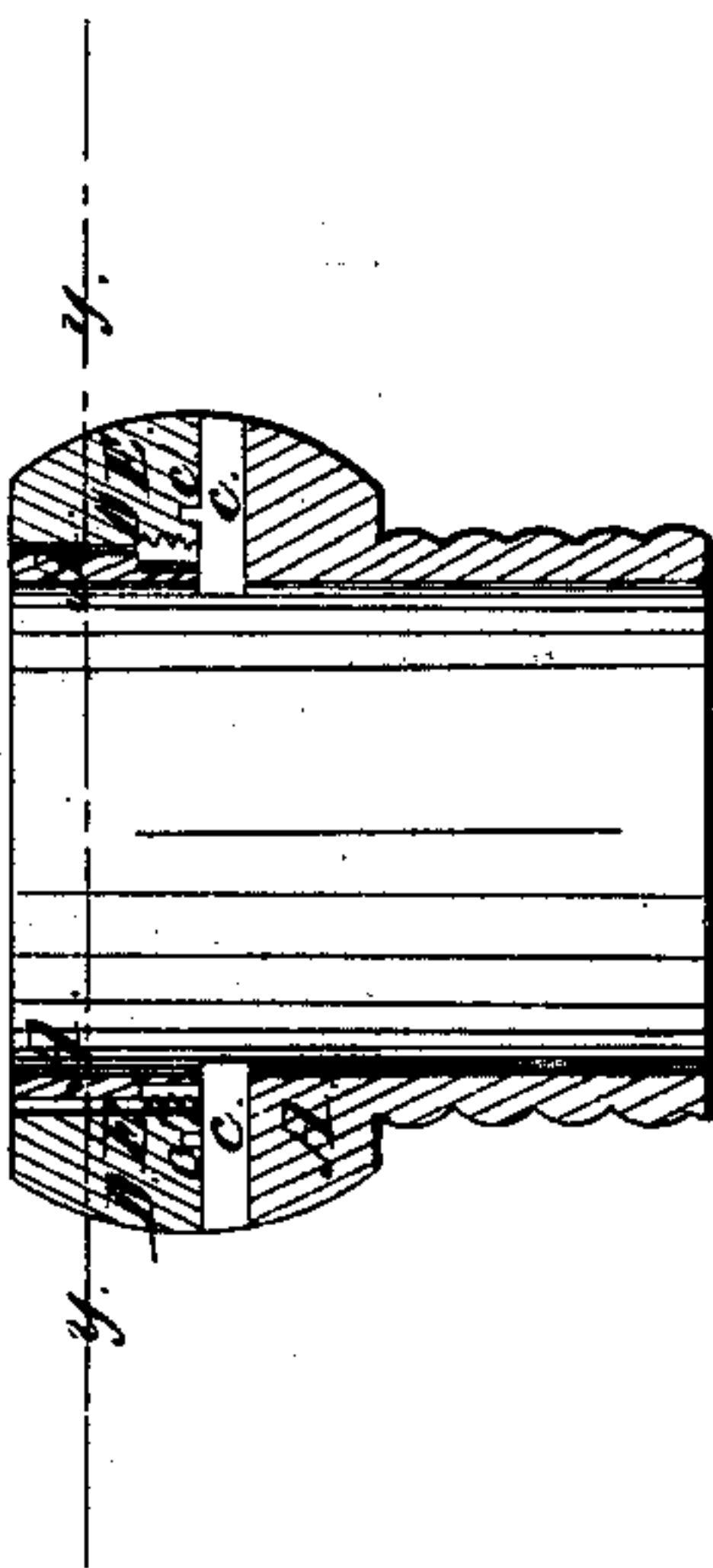


Patented Oct. 15, 1867.



Witnesses:
Thos Tusck.
J. A. Service.

Inventor:
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Per Munroe & Co
Attorneys.

United States Patent Office.

MOSELEY S. CURTIS, OF NEW YORK, N. Y.

Letters Patent No. 69,778, dated October 15, 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, MOSELEY S. CURTIS, 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 a part of this specification, in which—

Figure 1 is a longitudinal section of my improved hose-coupling.

Figure 2 is a cross-section of the same taken through the line *x x*, fig. 1.

Figure 3 is a longitudinal section illustrating a modification of the same.

Figure 4 is a cross-section taken through the line *y y*, fig. 3.

My invention consists in securing the parts of the coupling to each other by sliding blocks, and in operating said blocks by means of eccentric grooves formed in a movable part of the coupling; the whole being constructed and arranged as hereinafter more fully described.

A and B are the main parts of the coupling, the outer ends of which are corrugated in the usual manner to facilitate the attachment of the sections of hose. The inner end of the part A has a flange, *a'*, formed around it, and the said inner end is countersunk for the reception of the inner end of the part B, as shown in fig. 1. The outer surface of the inner end of the part B is grooved or channelled in such a way that the lower edge of the said chamber *b'* may be inclined, as shown in fig. 1. C are blocks, which slide in and out in grooves or channels formed in the flange *a'*, and through the sides of the part A, as shown in the drawings. The inner ends of the blocks C are inclined to correspond with the inclination of the lower edge of the channel *b'*. D is a ring, fitting down upon the flange *a'*, and moving freely back and forth around the inner part of the part A. In the lower surface of the ring D are formed two eccentric slots *d'*, into which enter the tongues or projections *c'*, formed upon the upper sides of the blocks C, as shown in figs. 1 and 2; so that by turning the ring or movable part D in one or the other direction, the blocks C may be moved inward to clamp the two parts A and B of the coupling together by the inclined ends of the blocks C coming in contact with the inclined sides of the channel *b'*, as shown in fig. 1. And by turning the movable part D in the other direction, the blocks C will be withdrawn, uncoupling the parts A and B. The part or ring D is secured in place by the ring or part E, which fits around the upper end of the part A, and upon the upper side of the part or ring D, and which is secured to the part A by screws passing through the sides of the part A, and screwing into the part E, as shown in dotted lines in fig. 1, or in any other convenient manner. If desired, the rings D and E may be made in one piece, as shown in fig. 3, and secured in place by an open ring. In this case a groove or channel is formed around the upper part of the part A, just above the blocks C, into which is sprung an open ring, having a screw-thread cut upon its outer surface. The movable part D E has a corresponding thread cut upon the lower part of its inner surface. The part D E is then screwed down upon the open ring, to which it is keyed by a pin or pins passing down through the part D E in such a position as to pass through the screw-threads of the said part, and through the threads of the open ring, securing them to each other and to the part A, and yet allowing them to be free to move to operate the blocks C.

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

1. Securing the parts A and B of the coupling to each other by means of the sliding blocks C, substantially as herein shown and described.

2. Operating the sliding blocks C by means of eccentric grooves formed in the movable part D of the coupling, substantially as herein shown and described.

The above specification of my invention signed by me this 8th day of December, 1866.

MOSELEY S. CURTIS.

Witnesses:

WM. F. McNAMARA,
JAMES T. GRAHAM.