

W. J. Osbourne,

Hose Coupling.

No. 28,184.

Patented Dec. 21, 1869.

Fig. 1.

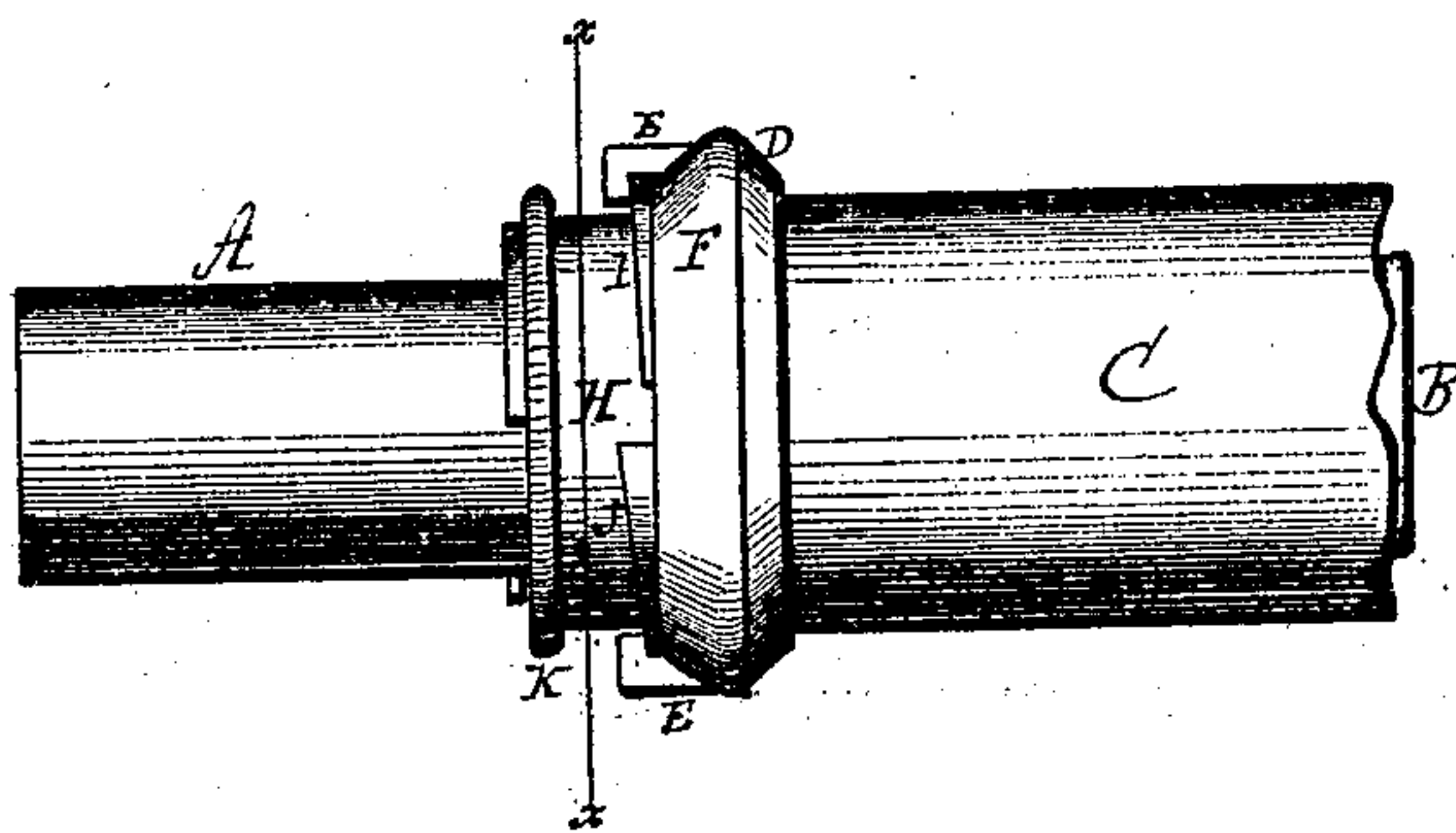


Fig. 2.

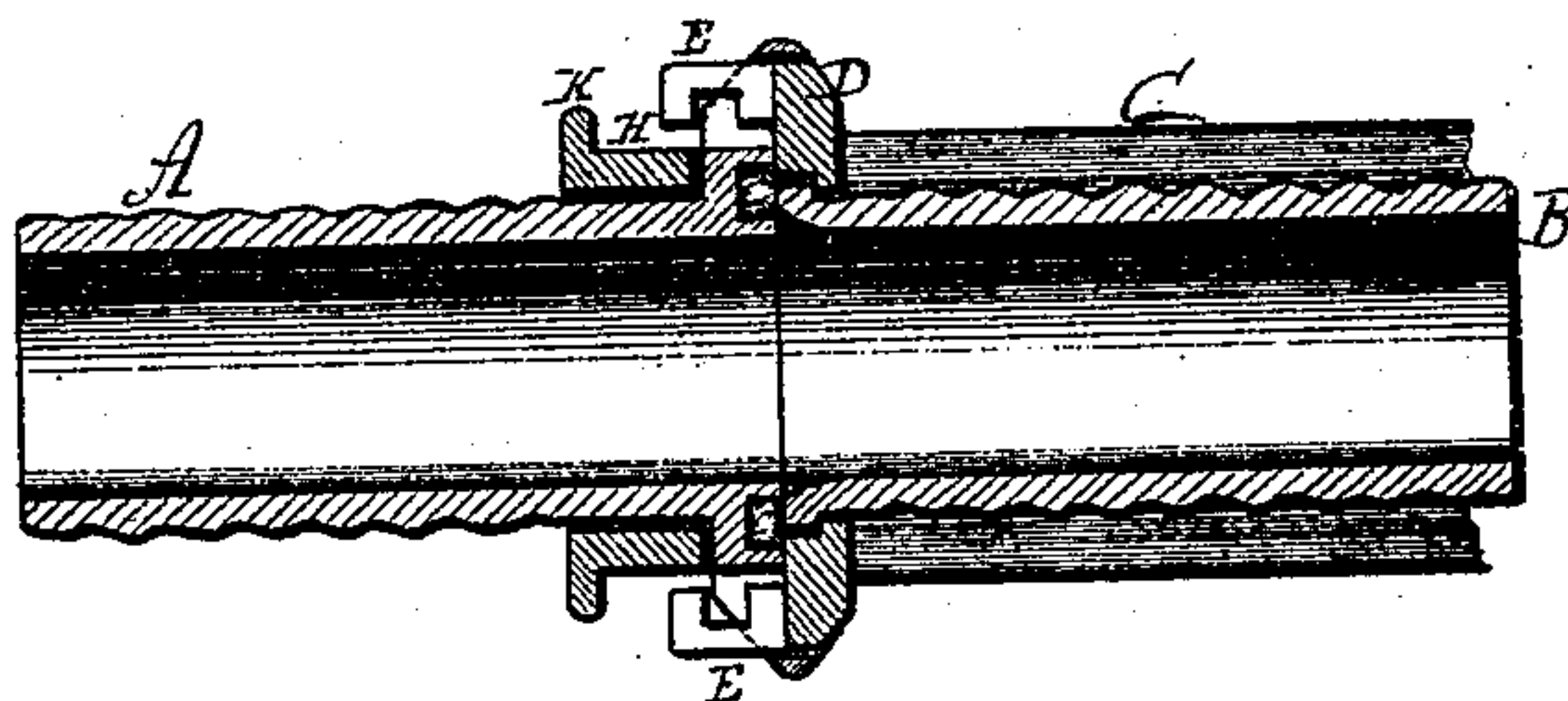
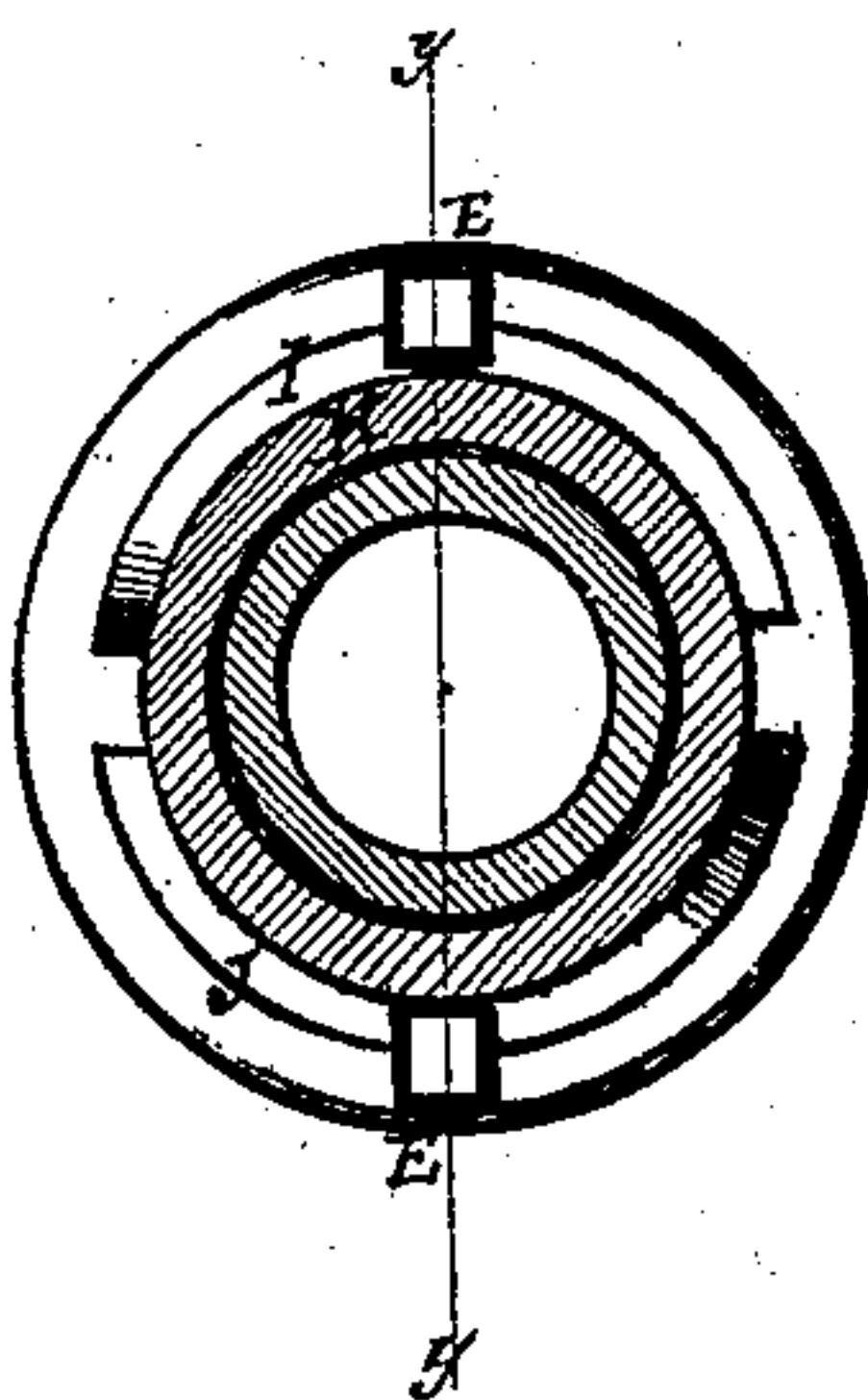


Fig. 3.



Witnesses:

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WILLIAM J. OSBOURNE, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF, GIDEON B. MASSEY, AND WILLIAM F. SHAFFER, OF SAME PLACE.

Letters Patent No. 98,184, dated December 21, 1869.

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, WILLIAM J. OSBOURNE, of the city, county, and State of New York, have invented a new and useful Improvement in 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 new and useful improvement in couplings for hose-pipe, whereby the parts of the hose are united in a more perfect manner than by the ordinary hose-coupling; and

It consists in the use of a ring or band, around one portion of the coupling, said band having upon its periphery two or more inclined planes, with which inclined planes, hooks on the other part of the coupling engage, as will be hereinafter more fully described.

In the accompanying drawing—

Figure 1 represents an outside view of the coupling, with hose attached to one part.

Figure 2 is a longitudinal section of fig. 3, through the line *y y*.

Figure 3 is a cross-section of the coupling through the line *x x* of fig. 1.

Similar letters of reference indicate corresponding parts.

A and B are metallic tubes, with corrugated surfaces, to which the hose is attached.

C represents the hose.

D is a collar on the part B, which is secured thereon by means of a shoulder, and by the end of the hose, as seen in the drawing.

This allows the hose (with the part B) to be turned round freely, to relieve the hose of twist, or for other purposes.

Attached to this collar D, are two or more hooks E.

F is a stationary collar on the part A, beneath which, and flush with the end of A, is secured (in any suitable manner) elastic packing G, against which the end of the part B is pressed, when the two parts are coupled, as seen in fig. 2. There are orifices through

this collar, through which the hooks E project, as seen in fig. 1.

H is the loose ring or band, which is placed on the part A, back of the collar F.

The outer surface or periphery of this ring or band bears inclined planes, (two or more,) marked in the drawing I J, with which the hooks E engage.

K is a milled rim around the band or ring H, by which the ring may be revolved by means of a spanner-wrench, or by any other suitable means.

When the bases of the inclined planes are opposite the orifices through the collar D, the hooks will engage with them, when, by turning the ring, the two parts of the coupling will be brought together with a constantly-increasing force, as with a screw.

On the outer edge of the ring there is a stop-flange, and on the part A there is a stop-pin, which limits the movement of the ring around the coupling, but I do not confine myself to this particular arrangement.

I am aware that the parts of a hose-coupling have been before united by means of inclined planes, but I am not aware that such inclined planes have been confined to a band or ring, having a motion independent of the hose or parts of the coupling, which arrangement allows the parts of the hose to be turned in any manner, without in the least disturbing the joint.

Having thus described my invention,

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

1. The arrangement of the ring H, with inclined planes, upon the tube A, as set forth, so that the said ring moves independent of the hose, and *vice versa*, all as shown and described.

2. The combination of tubes A B with ring H, hooks E E, packing G, and collar D, all constructed and arranged as specified.

WILLIAM J. OSBOURNE.

Witnesses:

GEO. W. MABEE,
FRANK BLOCKLEY.