

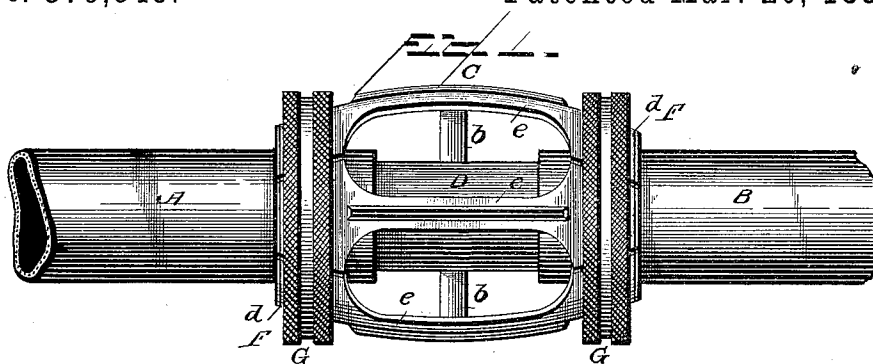
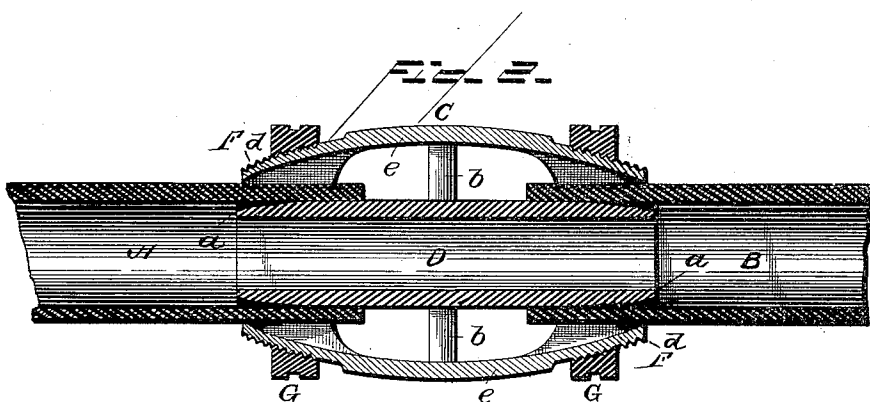
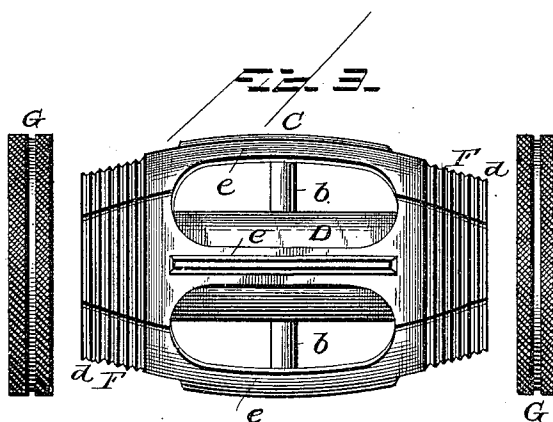
(No Model.)

C. W. BOLUSS.

HOSE COUPLING.

No. 379,845.

Patented Mar. 20, 1888.



WITNESSES
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HOSE-COUPLING.

SPECIFICATION forming part of Letters Patent No. 379,845, dated March 20, 1888.

Application filed July 21, 1887. Serial No. 244,923. (No model.)

To all whom it may concern:

Be it known that I, CLARENCE W. BOLUSS, a citizen of the United States, residing at Norwood, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Hose-Couplings; and I do 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 appertains to make and use the same.

This invention has relation to improvements in hose-couplings; and it consists in the construction, novel arrangement, and adaptation of devices, as will be hereinafter more fully set forth and claimed.

In the accompanying drawings, Figure 1 is a side elevation of my improvements, showing the same coupling two sections of a hose. Fig. 2 is a longitudinal central sectional view of the same, and Fig. 3 is an elevation of the parts disconnected.

Referring by letter to the said drawings, A and B indicate two sections of a rubber or other suitable hose, and C indicates my improved coupling device. This coupling consists of the longitudinal central bearing-tube, D, which has its opposite ends beveled exteriorly, as shown at *a*, to receive the ends of the tube or hose, as will be presently explained. This tube D is provided about midway of its length with a suitable number of integral fulcrum-arms, *b*. Made fast to the outer ends of these arms *b*, and preferably formed therewith, are compressible clamps F. These clamps F terminate at opposite ends in curvilinear conical jaws *d*, which are threaded externally, as will be hereinafter described. These jaws *d* are connected by an integral branch, *e*, which has its support upon the lugs *b*, the said branches having been reduced longitudinally, as shown, so as to allow the same to give when the jaws have been compressed by rings, as will be presently described.

The ends of the bearing tube D are extended slightly beyond the outer edges of the compressible jaws, so as to form a guide for the introduction of the hose thereon and beneath the said jaws.

By reference to Fig. 3 of the drawings it will be seen that the compressible jaws when

expanded have an interspace between them, and the whole comprise a clamp of conical annular form.

G indicates the compressing-rings, there being one employed for each connected end of the hose. The interiors of these rings are of conical form and are threaded to engage the threads of the compressible jaws of the coupler. Thus it will be seen that when the ends of the hose have been adjusted upon the bearing-tube by turning up the conical rings upon the jaws the same will be compressed and held forcibly against the said bearing-tube, with the hose interposed, when a tight joint will be formed and a connection of the parts effected. It should be observed that the tube, the compressible jaws, and their lug or stud supports may be formed in one piece, and these parts are preferably made of brass, although they may be made of other material. It will also be observed from the construction illustrated that there is nothing to get out of order and that the parts are effective in their operation. It will also be seen that by having the connections of the clamping-jaws long and narrow there will be but little resistance to the action of the rings in compressing the said jaws upon the hose.

Having described this invention, what I claim is—

1. The compressible clamping-jaws of curvilinear conical form, having external threads, and connected by the reduced portions supported on radial arms, and the bearing-tube formed with the said arms and having its ends extended and beveled to form guides for the hose, in combination with the internally-threaded conical compressing-rings, substantially as specified.

2. The bearing-tube having its ends beveled and formed with radial arms about midway of its length, and the compressible jaws connected by reduced parts supported on the said arms, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

CLARENCE W. BOLUSS.

Witnesses:

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H. B. TURRILL.