

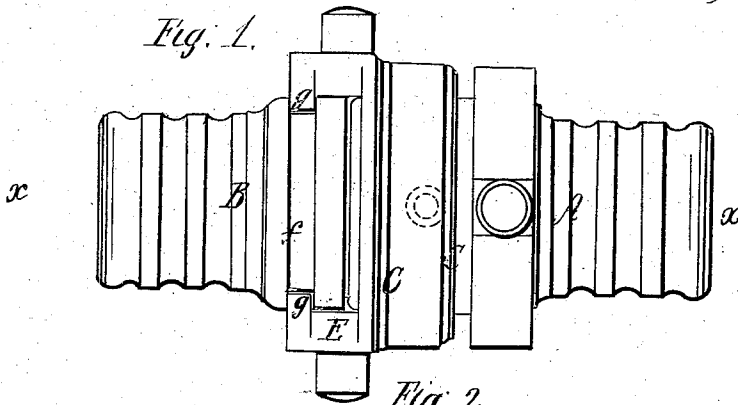
*H Feyh,*

*Hose Coupling.*

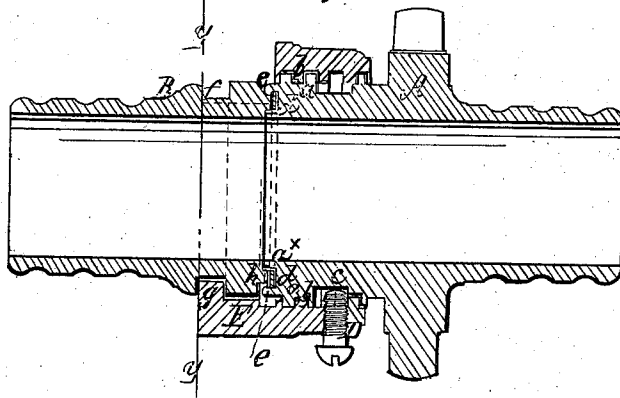
*N<sup>o</sup> 33,430.*

*Patented Oct. 8, 1861*

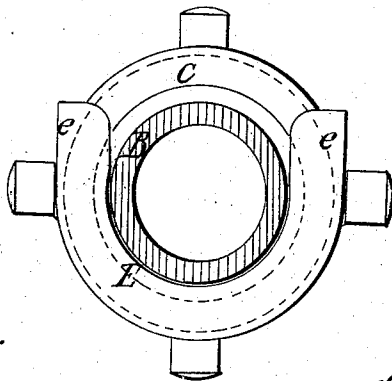
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



*Witnesses;*  
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# UNITED STATES PATENT OFFICE.

HENRY FEYH, OF COLUMBUS, OHIO.

## IMPROVED HOSE-COUPLING.

Specification forming part of Letters Patent No. 33,430, dated October 8, 1861.

*To all whom it may concern:*

Be it known that I, HENRY FEYH, of Columbus, in the county of Franklin and State of Ohio, have invented a new and Improved Hose-Coupling; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is an external view of my invention. Fig. 2 is a longitudinal central section of the same, taken in the line  $xx$ , Fig. 1. Fig. 3 is a transverse section of the same, taken in the line  $yy$ , Fig. 2.

Similar letters of reference indicate corresponding parts in the several figures.

Hose-couplings have been made in which the edges of the face of one butt were provided with parallel tongues which fitted into corresponding parallel grooves made in the face or edges of the other butt. Couplings thus made soon become leaky and worthless by the wearing of the tongues and grooves, and also by the strain to which they are subjected. No method of adjustment to compensate for such wear has ever been known or employed so far as I know. In the present improvement I overcome the above-named difficulties by the employment of a clamping-flange and screw-thimble, so combined with other parts as to obviate all of the difficulties above named.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A B represent two butts, which are secured in the usual way to the ends of hose. The butt A is provided with a screw-thread  $a$  near its outer end, and on this thread a thimble C is placed, the thimble being provided with an internal screw-thread  $b$ . The butt A has a groove  $c$  made in it circumferentially, and a screw D passes through the thimble into groove  $c$ , the latter being wider than the thickness of the screw in order to allow the thimble a certain degree of play or movement on the butt A. (See Fig. 2.) The end of the butt A has an annular packing  $d$  fitted in it, said packing being of leather or other suitable material, and fitted in a groove

$a^*$  in the butt, which groove has a lip  $e$  projecting over its outer edge to retain the packing in proper place, as will be fully understood by referring to Fig. 2. The thimble C is provided with a flange E, which extends around one-half of its periphery, and has tangential ends  $e$  which project a trifle beyond the periphery of the thimble. (See Fig. 3.) The butt B has a groove  $f$  made circumferentially in it near its end, and this groove receives a lip  $g$  at the end of the flange E, the butt B being allowed to slide freely in and out of the flange E when the parts are not connected together. The end of the butt B is provided with an annular ledge  $h$ , which fits into the groove  $a^*$ .

From the above description it will be seen that when the butt B is fitted in the flange E of the thimble C, and the latter screwed backward on butt A as far as possible, the ledge  $h$  will abut against the packing  $d$  in the groove  $a^*$ , and hence the butt B will be prevented from moving laterally out from the flange E, while the lip  $g$  of flange E, fitting in the groove  $f$  prevents the longitudinal detachment of the butts. In order to disconnect the butts the thimble C is screwed forward on butt A until the ledge  $h$  is out of groove  $a^*$ . The butt B may then be shoved laterally out from the flange E.

The device is extremely simple and efficient. There are no parts liable to get out of repair, and the butts may be very expeditiously connected and disconnected.

I do not claim, broadly, the fitting together of hose-pipes by having one part provided with a groove and the other part with a corresponding tongue; nor do I claim a closing-pipe as my invention; but,

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

The semiannular clamping-flange E, in combination with the screw-thimble C, screw-thimble  $a$ , and butts A B, as herein shown and described.

HENRY FEYH.

Witnesses:

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