V. D. ANDERSON.

Improvement in Pipe-Couplings.

No. 114,903. Patented May 16, 1871.

Fig 1

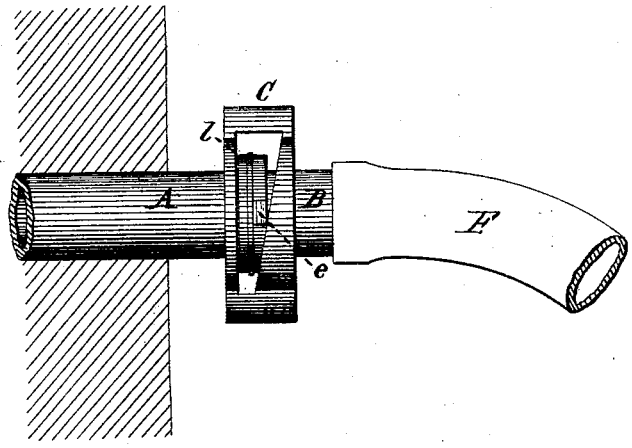


Fig 2

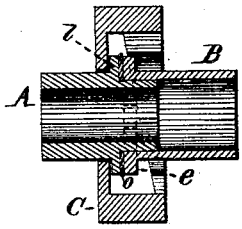
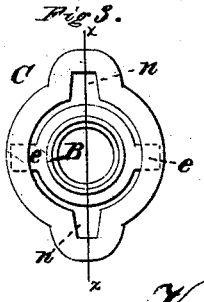


Fig 3.



Witnesses.

Harry King.

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Inventor.

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VALERIUS D. ANDERSON, OF KEWANEE, ILLINOIS.

Letters Patent No. 114,903, dated May 16, 1871.

IMPROVEMENT IN PIPE-COUPLINGS.

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, VALERIUS D. ANDERSON, of Kewanee, in the county of Henry and State of Illinois, have invented certain Improvements in Steam-Pipe Couplings, of which the following is a specification, reference being had to the accompanying drawing.

My invention consists of a new device for coupling the pipes used for conducting steam to cooking apparatus, as hereinafter more fully explained.

Figure 1 is a side elevation of the coupling as applied in use;

Figure 2, a longitudinal vertical section; and

Figure 3 is a front view of the same.

This device is intended to be used in connection with a steam-cooking apparatus as made by myself.

In setting up an apparatus of this character it is customary to arrange the various cooking-dishes on a shelf or support along in front of a wall, and to bring the steam through permanent pipes A, which pass through or protrude from the wall, as represented in fig. 1. As the dishes are made removable it is necessary to have some means of readily connecting them to and disconnecting them from the pipes A. At the same time it is necessary that the coupling should be extremely simple, so that it can be readily operated by servants and children, and so arranged that it cannot be detached or lost.

In constructing my improved device I make the protruding end of the stationary pipe A with a collar or flange, *l*, on it, against which the coupling C bears, as shown in figs. 1 and 2, the coupling being slipped on from the opposite end of pipe A.

This pipe A also has its end projecting a short distance beyond the flange, and is turned down so as to enter the end of the joint B, as shown in fig. 2, though this is not absolutely essential.

I then provide a short joint, B, one end of which is secured to a pipe or tube, E, that leads to the cooking-vessel, as represented in fig. 2. The opposite end of this joint B is provided with two laterally-projecting ears or lugs, *e*, arranged on opposite sides, as shown in fig. 3.

The coupling C, which locks these two joints of pipes together, consists of a collar or ring, C, which fits loosely upon the pipe A, being held thereon by the flange *l*. This ring has an opening in its front large enough to admit the end of the joint B; and in this opening, on opposite sides, is cut a notch, *n*, to admit the entrance of the ears *e* of the joint B, as shown in fig. 3.

On its inner face this part of the collar C, behind which the ears *e* engage when the collar is turned, is inclined on each side, as shown in figs. 1 and 2, so that when the joint B has its end inserted within the coupling and the latter is turned, these inclines press against the ears *e* and thus force the joint B tight against the shoulder or flange *l* of the pipe A, thereby locking them firmly together.

In order to render the union steam-tight a rubber packing-ring, *o*, is placed on the projecting end of the pipe A, so that the end of the joint B, when crowded up, will press against this packing, holding it firmly between the two pipes or joints.

To uncouple the joint it is only necessary to turn the coupling C back and withdraw the joint B, the collar C and the packing-ring remaining securely in place upon the pipe A.

In this way I construct an exceedingly cheap, simple, and efficient coupling; one that can be operated by any person without the use of special tools, and that cannot become detached or lost.

Having thus described my invention,

What I claim is—

The coupling, consisting of the pipe A with the flange *l*, and the pipe B with its ears *e*, and the collar C, constructed and arranged to operate therewith, substantially as described.

VALERIUS D. ANDERSON.

Witnesses:

PHIL. T. DODGE,

W. C. DODGE.