

(No Model.)

E. G. WILLIAMS.
PIPE COUPLING.

No. 417,127.

Patented Dec. 10, 1889.

Fig. 1.

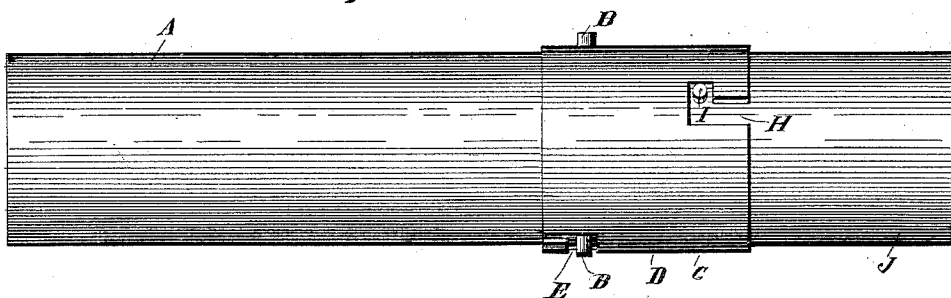


Fig. 2.

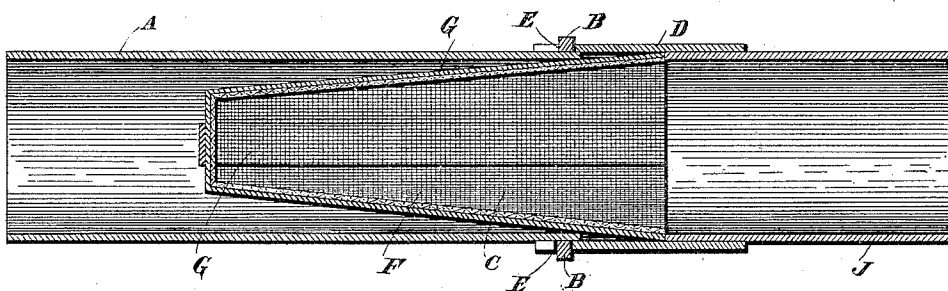
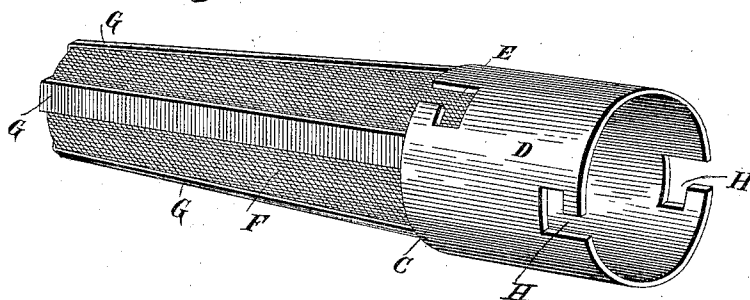


Fig. 3.



Witnesses,

W. Withers,

R. H. Bishop,

By his Attorneys,

C. A. Snow & Co.

Inventor

Elkanah G. Williams,

UNITED STATES PATENT OFFICE.

ELKANAH G. WILLIAMS, OF PITT, OHIO, ASSIGNOR OF ONE-HALF TO JOHN EMERSON, OF SAME PLACE.

PIPE-COUPLING.

SPECIFICATION forming part of Letters Patent No. 417,127, dated December 10, 1889.

Application filed August 10, 1889. Serial No. 320,153. (No model.)

To all whom it may concern:

Be it known that I, ELKANAH G. WILLIAMS, a citizen of the United States, residing at Pitt, in the county of Wyandot and State of Ohio, have invented a new and useful Pipe-Coupling, of which the following is a specification.

My invention relates to improvements in pipe-couplings, and has special reference to devices for securing a filter in a pipe between a rain-spout and the cistern.

The invention consists in certain novel features hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a side view of my improved device. Fig. 2 is a longitudinal section of the same. Fig. 3 is a detail perspective view of the filter.

The conducting-pipe A is of the usual construction and is provided at its lower end with the diametrically-opposite outwardly-projecting pins B, as shown. The filter C consists of a circular band D, of slightly greater diameter than the pipe A, and provided in its upper edge with the diametrically-opposite reversely-arranged bayonet-slots E, which are adapted to engage the said pins B, and thereby secure the filter on the pipe A. The screen F is secured to the inner side of the band D and extends downward therefrom, being re-enforced and strengthened by the longitudinally-arranged brace-rods G, as shown. The band D is provided in its lower edge with bayonet-slots H, which are adapted to engage over the outwardly-projecting pins I on the conducting-pipe J, and thereby secure the said pipe thereto.

From the foregoing description, taken in connection with the accompanying drawings, it is thought the operation and advantages of my improved device will be readily understood. The water flows downward through the conducting-pipe in the usual manner, and

passes through the filter, so as to be cleansed of all impurities, and then escapes through the discharge-pipe into the cistern. By connecting the filter to the conducting and discharge pipes by the bayonet-slot connections the parts can be easily separated, so as to permit the removal and easy cleansing of the filter, and by employing the discharge-pipe the water may be conducted to any desired point and discharged in a single stream, whereas if it were allowed to escape directly from the filter it would be scattered and a considerable quantity lost. The ends of the band of the filter overlap the ends of the conducting and discharge pipes, and thereby form a perfect joint, so as to prevent leakage.

The device is very simple, and its advantages are thought to be obvious.

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

The combination of the conducting-pipe provided at its lower end with outwardly-projecting radial pins, the discharge-pipe provided with outwardly-projecting radial pins at its upper end, the circular band provided in its ends with the reversely-arranged bayonet-slots adapted to engage the said pins, and the downwardly-tapered screen having its upper larger end secured to the inside of the band at about the center of the same, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ELKANAH G. ^{his} + WILLIAMS.
mark

Witnesses:

J. H. COLLINS,
CYRUS SEARS.

It is hereby certified that the name of the assignee in Letters Patent No. 417,127, granted December 10, 1889, upon the application of Elkanah G. Williams of Pitt, Ohio, for an improvement in "Pipe-Couplings," was erroneously written and printed "John Emerson;" that said name should have been written and printed *John Emerson Lavelly*, and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed, countersigned, and sealed this 7th day of January, A. D. 1890.

[SEAL.]

CYRUS BUSSEY,

Assistant Secretary of the Interior.

Countersigned:

C. E. MITCHELL,

Commissioner of Patents.