(No Model.)

T. C. BELDING.

RAIN WATER CUT-OFF.

No. 533,265. Patented Jan. 29, 1895.

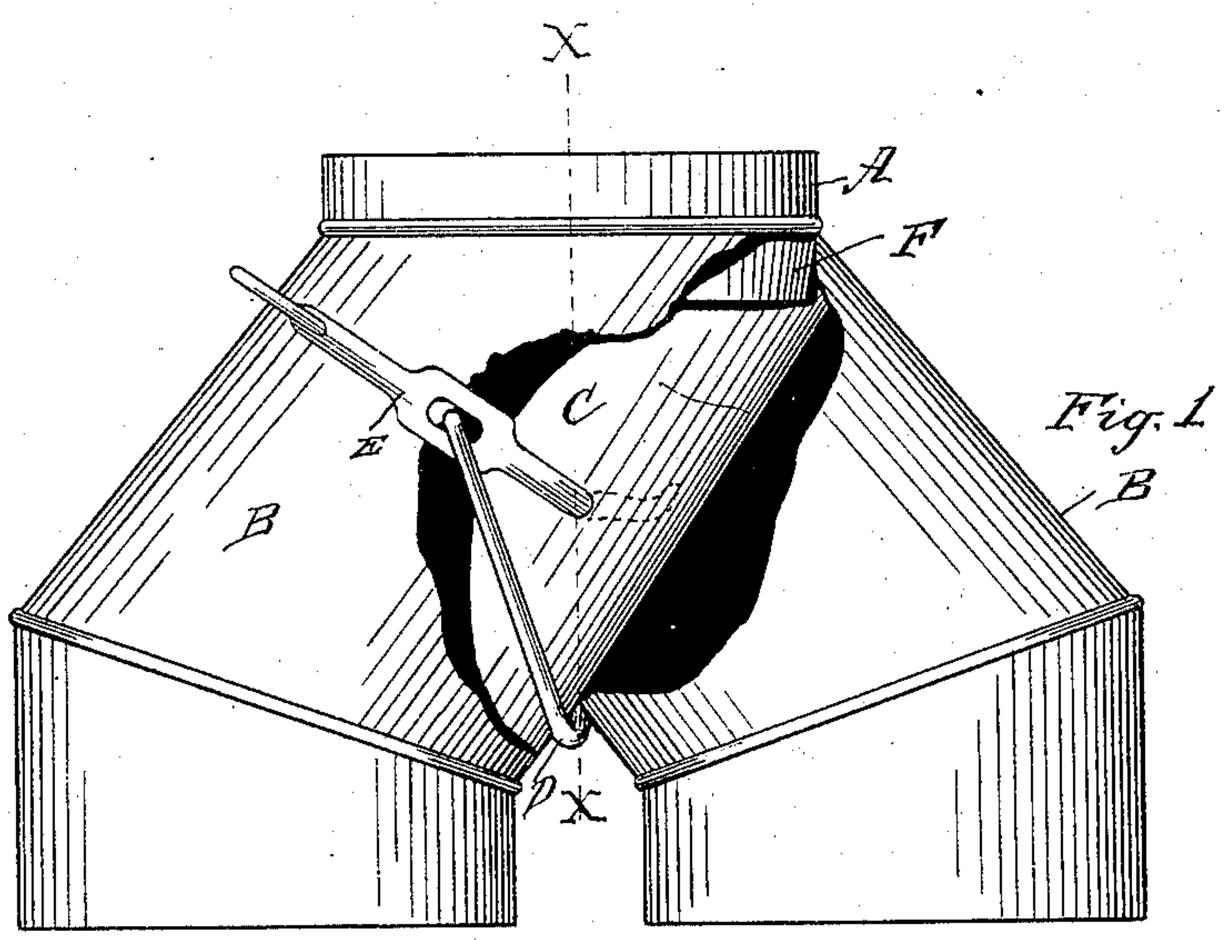

Fig. 1.

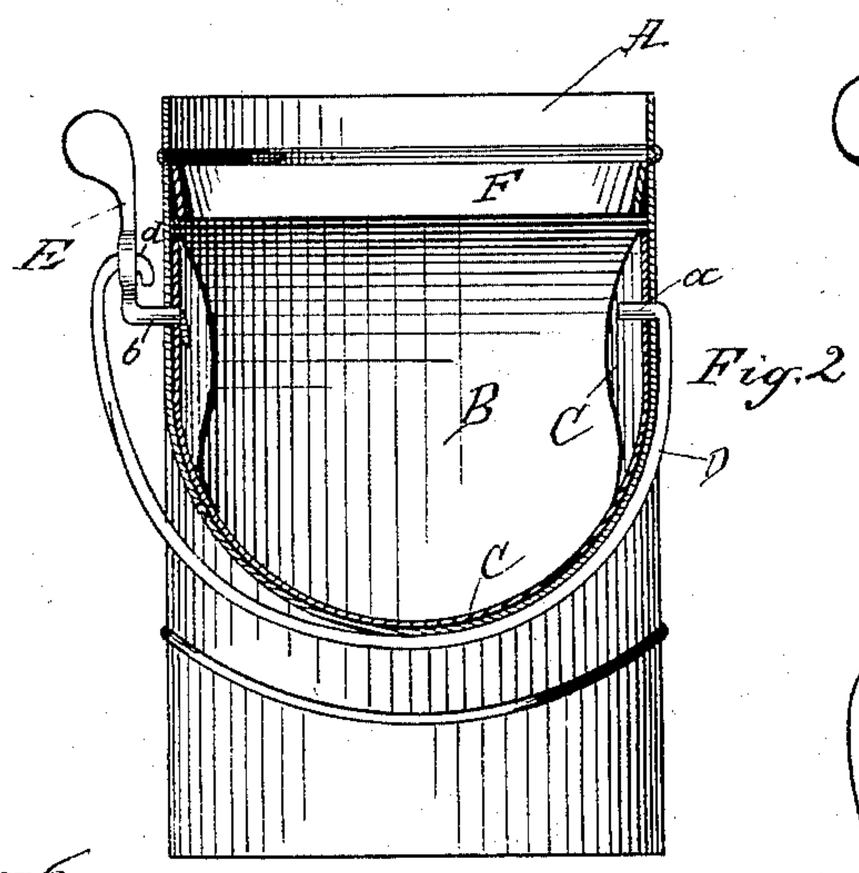

Fig. 2.

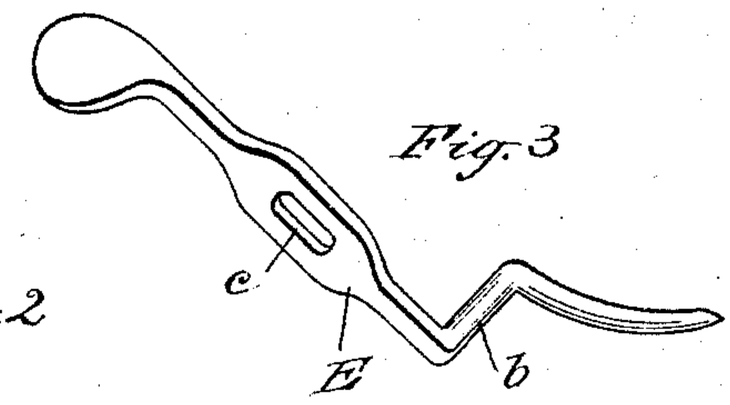

Fig. 3.

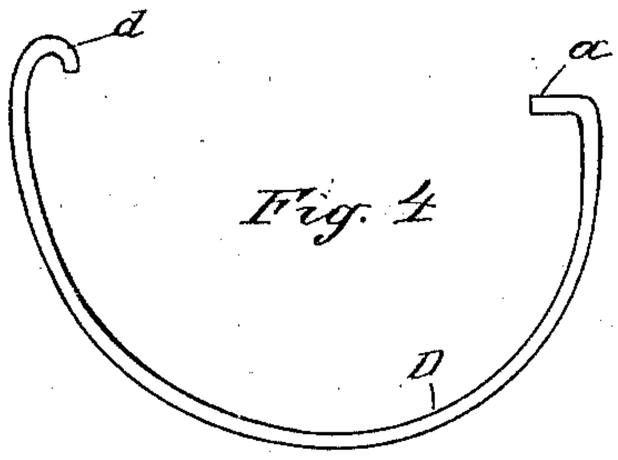

Fig. 4.

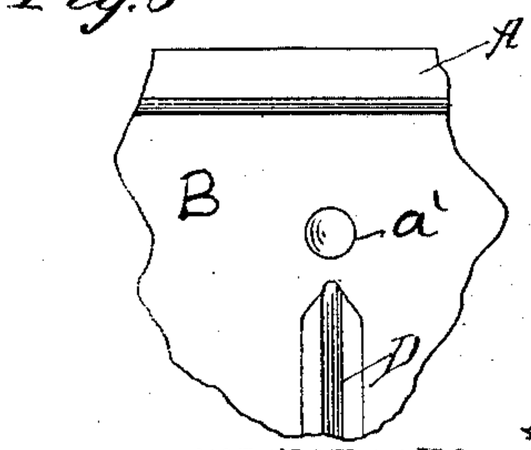

Fig. 6.

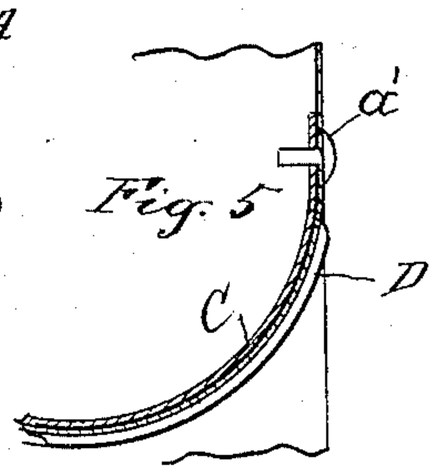

Fig. 5.

WITNESSES

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UNITED STATES PATENT OFFICE.

THOMAS C. BELDING, OF CANTON, OHIO, ASSIGNOR TO THE CANTON STEEL ROOFING COMPANY, OF SAME PLACE.

RAIN-WATER CUT-OFF.

SPECIFICATION forming part of Letters Patent No. 533,265, dated January 29, 1895.

Application filed February 15, 1894. Serial No. 500,208. (No model.)

To all whom it may concern:

Be it known that I, THOMAS C. BELDING, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Rain-Water Cut-Offs; 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 a part of this specification, and to the letters of reference marked thereon, in which—

Figure 1, is a side view, showing a part of the casing or shell broken away, to better illustrate the cut-off valve. Fig. 2, is a vertical section through line *x x*, Fig. 1. Fig. 3, is a detached view of the cut-off valve operating handle or lever. Fig. 4, is a detached view of the cut-off valve retaining spring. Fig. 5, is a view showing a portion of the cut-off valve and its retaining spring, showing a modified form for pivotally connecting one side of the cut-off valve. Fig. 6, is a view showing a portion of the cut-off valve retaining spring, and illustrating the position of the fixed end of said retaining spring.

The present invention has relation to rain water cut-offs, and it consists in the different parts and combination of parts hereinafter described and particularly pointed out in the claim.

Similar letters of reference indicate corresponding parts in all the figures of the drawings.

In the accompanying drawings A, represents the collar designed and calculated to receive the end of a conductor pipe, to which collar are attached the branch pipes B, said branch pipes being united at their top or upper ends, in any convenient and well known manner, and to the bottom or lower ends of said branch pipes, are attached in the ordinary manner, the cistern and overflow pipes. Within the branch pipes B, is located the cut-off valve C, which cut-off valve is convexo-concave in cross section, and is pivotally attached as hereinafter described.

The retaining spring D, is substantially of the form shown in Fig. 4, and as shown it is formed of a single piece of wire and bow shaped, one end thereof being provided with the inward extending arm or portion *a*, which inward extended portion is passed through the metal of the branch pipes B, and extended into the valve chamber a sufficient distance to provide a bearing or pivot for one side of the cut-off valve C. To the opposite side of the cut-off valve C, is attached in any convenient and well known manner, the operating handle or lever E, which operating handle or lever, is provided with the angled portion *b*, which angled portion extends through a suitable bearing formed in the metal of the pipe B.

The operating handle or lever E, is provided with the aperture *c*, which aperture is for the purpose of engaging the hook *d*, said hook being formed upon the free end of the spring D.

The spring D, is so adjusted that its free end will at all times have a tendency to pull the operating lever or handle E, downward, thereby pressing the valve C upward, which brings the top or upper end of said valve between the flange F, and the respective branch pipe B.

In Fig. 5, a slight modification is shown, which consists in forming the arm *a'* separate from the spring, which arm *a'* may be an ordinary rivet, having a shank of sufficient length to provide a suitable bearing or pivot for one side of the cut-off valve.

The operations of my device are as follows: When it is designed to change the position of the cut-off valve C, to shift the flow of water, the operating handle E is lifted upward at its free end, carrying with it the free end of the spring D, until said handle has assumed a perpendicular position, which brings the cut-off valve C into a horizontal position. After a horizontal point has been reached and the lever E is in a vertical position, it is carried over the center, which brings said lever into proper position to be drawn downward, by the spring D, and properly hold the cut-off valve C at the desired adjustment.

It will be understood that by the construction of my cut-off, two parts are employed, and at the same time the construction is simple, and yet effective in all its details.

Having fully described my invention, what

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

The combination of the collar A, the branch pipes B secured to the collar, the cut off valve C, the bow shaped spring D, formed of a single piece of wire, and provided with the arm *a*, extended into the valve chamber, the handle E attached to the valve C and provided with the angled portion *b*, and the aperture *c*, and the hook *d*, located upon the free end of the spring D, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

THOMAS C. BELDING.

Witnesses:
CHAS. E. BELDING,
F. W. BOND.