

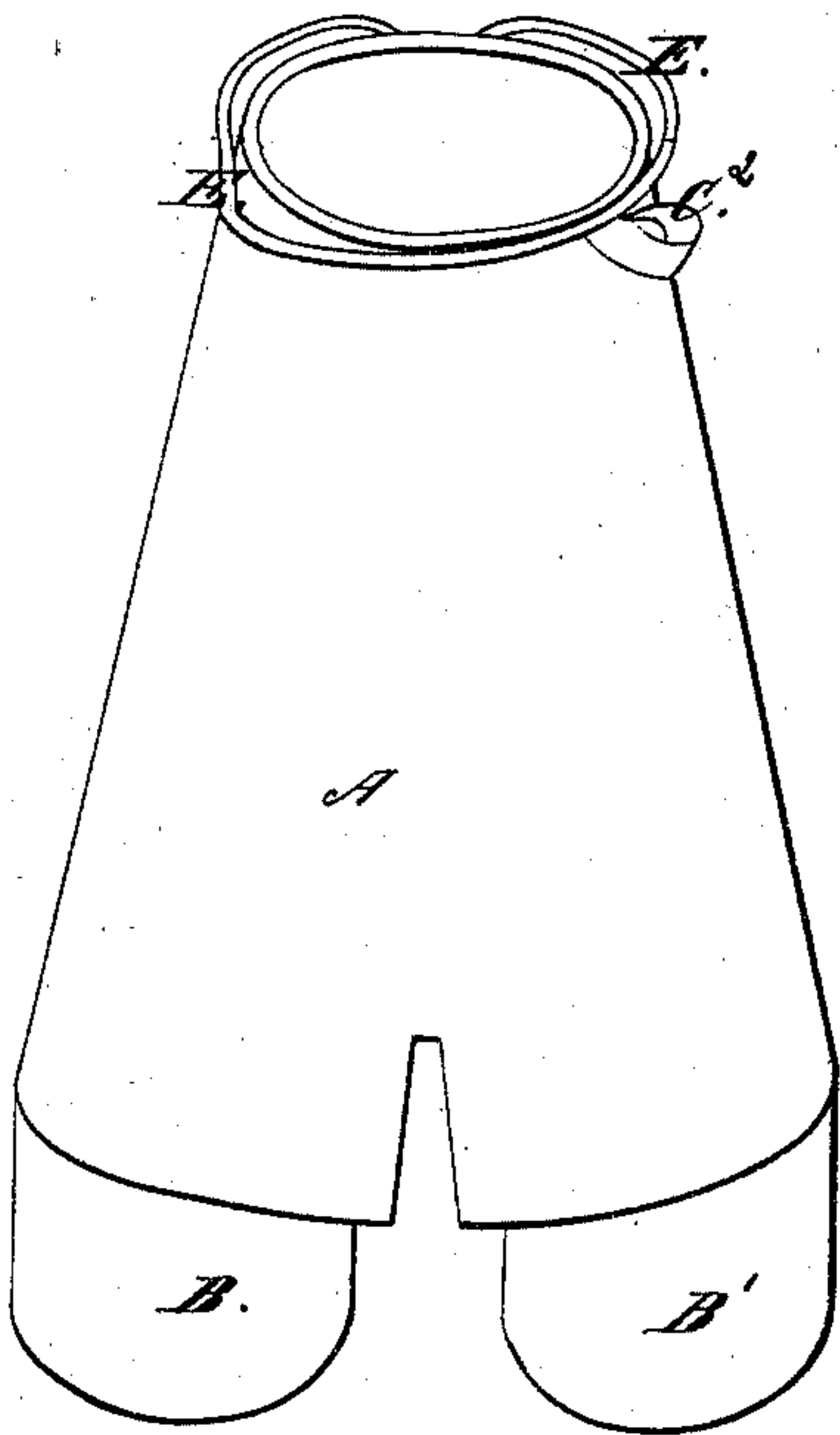
E. B. Armstrong,

Cut-Off for Water Conductors.

N^o 68,682.

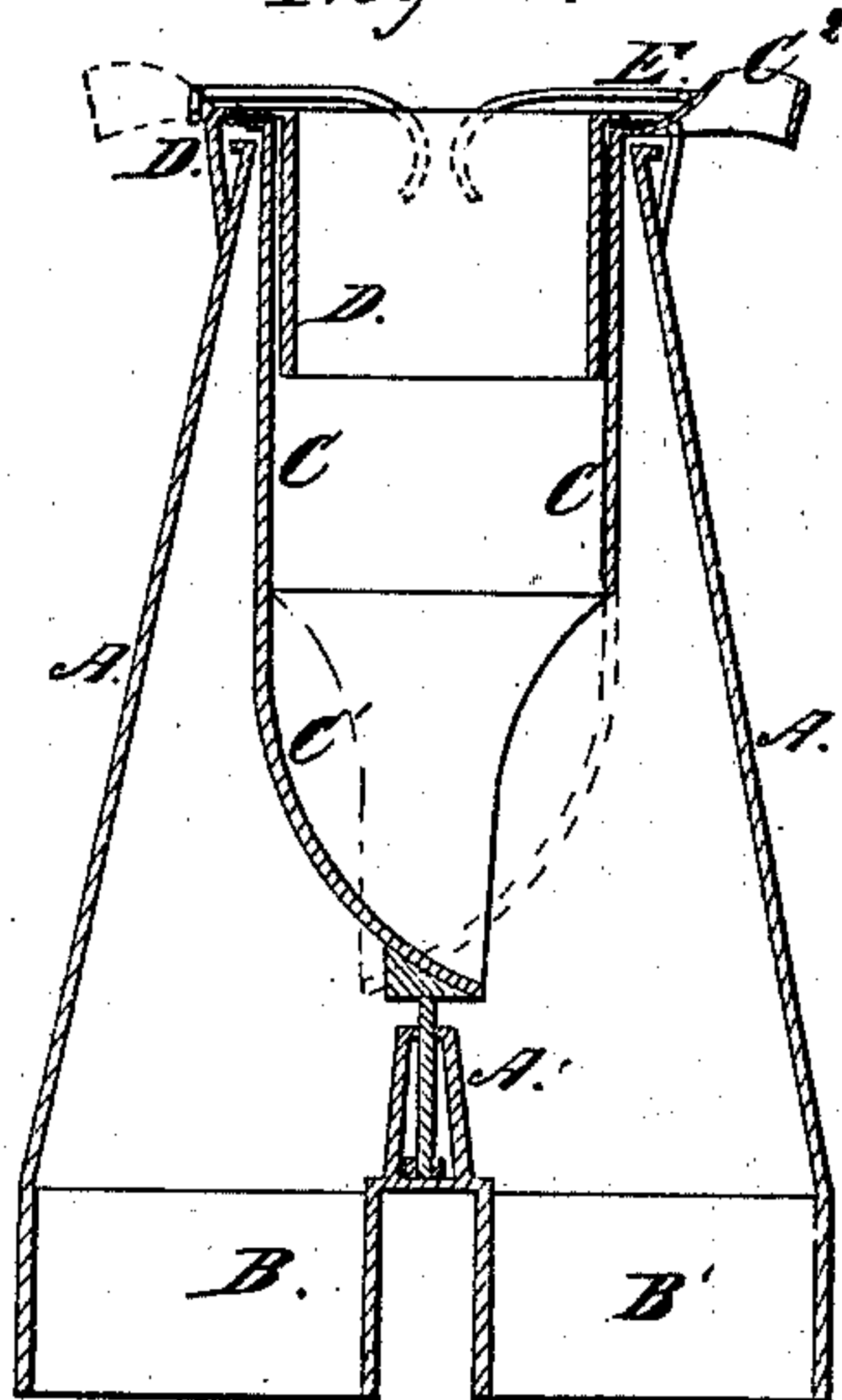
Patented Sep. 10, 1867.

Fig. 1



Witnesses
Chas. F. Claussen

Fig. 2.



Inventor
E. B. Armstrong
by
D. P. Mollway
his atty

United States Patent Office.

E. B. ARMSTRONG, OF COLUMBUS, OHIO.

Letters Patent No. 68,682, dated September 10, 1867.

IMPROVEMENT IN CUT-OFFS FOR WATER-CONDUCTORS.

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, E. B. ARMSTRONG, of Columbus, in the county of Franklin, and State of Ohio, have invented a new and improved Cut-Off for Water-Conductors; 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 a perspective view, and

Figure 2 is a vertical section.

The same letters are employed in both figures in the indication of parts which are identical.

The external casing A of the cut-off forms part of a continuous vertical pipe, as, for instance, of the water-spouting of a building, though it may be applied to use in any analogous case where it is desirable to change the flow of a liquid from a pipe into either one of two connecting pipes. B and B' are two connecting pipes, into one or the other of which it is desired alternately to direct the flow of water. This is done by means of the cut-off C, which is a tube placed within the casing A, having at its lower end a curved lip, C¹, to the lower extremity of which is attached a pivot, which rests upon the partition A', extending across the casing A, between and above the pipes B B', or the pivot may be fastened to this partition and sustain the cut-off, which turns upon it. The lip C¹ should be carried beyond the partition, so that whether placed, as shown by the dark or the red lines in fig. 2, it will direct all the water flowing through the pipe from above into the space between the partition A' and the casing, from which it will flow off through either the pipe B or the pipe B', as may be desired. I prefer to turn the upper edge of the cut-off outwards, so as to form a horizontal flange, to which I attach a handle, C², by which it may be turned. D is an internal pipe forming an extension of the upper portion of the water-conductor, which should fit snugly within it. This pipe is attached to the external casing by straps D', carried over the cut-off C, on one side only, so as not to interfere with the revolution from side to side alternately of the handle C². E is a wire spring, the ends of which are attached near to one another to the outside of the casing A. This wire is carried up at the points where the handle C² will rest when the cut-off is turned so as completely to direct the water into one or the other of the pipes B B', and is bent downwards again between these points so as to form a catch to hold the cut-off in proper position. I place two of the straps D' in such position as to serve as stops to prevent the handle C² being turned further than is necessary to place the cut-off in proper position. The elasticity of the spring E will permit it to be raised so that the handle may be turned from side to side.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The revolving cut-off C C¹, in combination with the external casing A and extension pipes B and B', substantially as and for the purpose set forth.

2. The combination and arrangement of the casing A, pipes B and B', internal intermediate partition A', cut-off C C¹, and internal pipe D, substantially as described.

3. The combination of the casing A, pipes B and B', cut-off C C¹, handle C², and spring E, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

E. B. ARMSTRONG.

Witnesses:

S. W. ANDREWS,

LAWRENCE MURPHY, Jr.