J. G. DIEM.

WATER CUT-OFFS.

No. 193,857. Patented Aug. 7, 1877.

Fig. 1

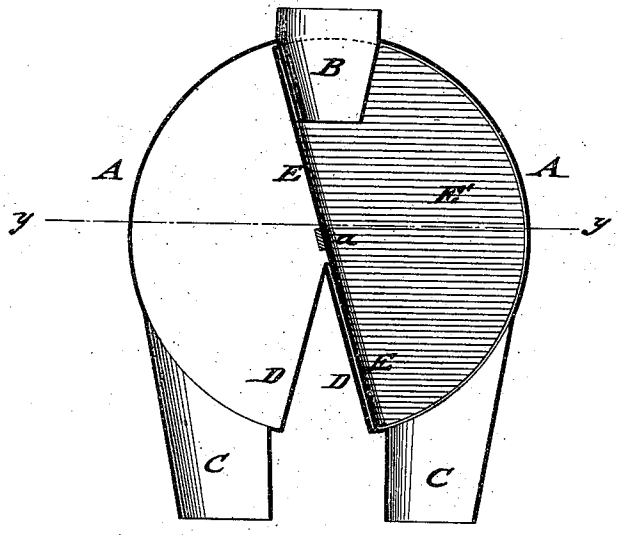
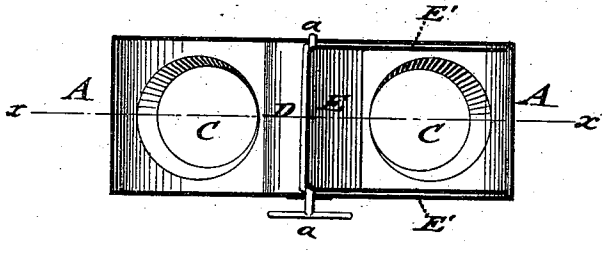


Fig. 2



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN G. DIEM, OF ST. FRANCISVILLE, LOUISIANA.

IMPROVEMENT IN WATER CUT-OFFS.

Specification forming part of Letters Patent No. **193,857**, dated August 7, 1877; application filed June 4, 1877.

To all whom it may concern:

Be it known that I, JOHN G. DIEM, of St. Francisville, in the parish of West Feliciana and State of Louisiana, have invented a new and Improved Water Cut-Off, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a vertical longitudinal section on line *x x*, Fig. 2; and Fig. 2, a horizontal section on line *y y*, Fig. 1, of my improved water cut-off.

Similar letters of reference designate corresponding parts.

The invention has reference to improvements in the cut-offs for conducting the water from the roof either to the waste-pipe or cistern, so as to first cleanse the water of dust, soot, &c., and then conduct the pure rain-water to the cistern, and when the same is filled again to the waste-pipe.

The invention consists of a cut-off of circular shape, having conical supply and exit pipes, separated by a tapering partition, in combination with a centrally-swinging semicircular gate, that connects the supply-pipe with either discharge-pipe.

In the drawing, A represents the cylindrical body or main part of my improved cut-off; B, the water-entrance pipe, and C C the water-discharge pipes, of which one is connected to the cistern, the other to the waste-pipe.

The inner end of the supply-pipe B is of conically-tapering shape, while the discharge-pipes C C are separated by inclined walls D D, that form a sector-shaped body, which extends into the cylindrical main body nearly up to the center, the inclined side walls being preferably in line with the tapering end of the supply-pipe B.

A centrally-pivoted gate, E, with semicircular side walls E′, is carried by the outer handle end of the gate-pivot *a* from one-half of the body A to the other, so as to bear on one side of the supply-pipe, and rest on the correspondingly-inclined partition-wall D, conducting thus the water from the supply-pipe to the waste-pipe or cistern, as required, without leakage or choking, as the semicircular space of the main body A serves as a kind of regulator, and produces the even discharge of the water. The cylindrical shape of the cut-off imparts to the same a lighter and neater appearance, and renders the same more effective and reliable in use.

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

As an improvement in water cut-offs, a cylindrical main body, A, having supply-pipe B, with conical interior end and discharge-pipes C C, with inclined separating-walls, in combination with a centrally-pivoted gate, E, having semicircular side guide-walls E′, substantially in the manner and for the purpose set forth.

JOHN G. DIEM.

Witnesses:

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