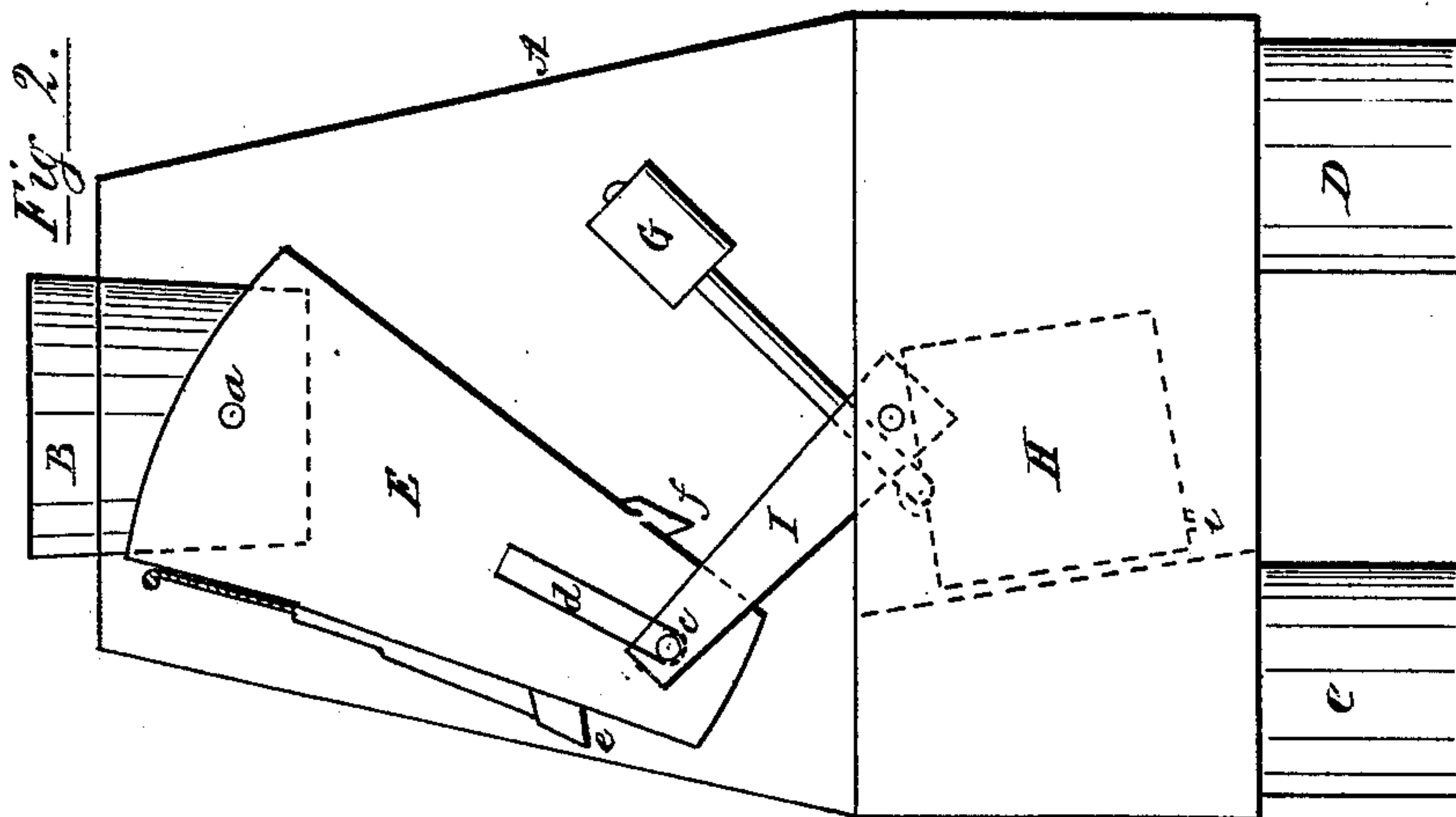
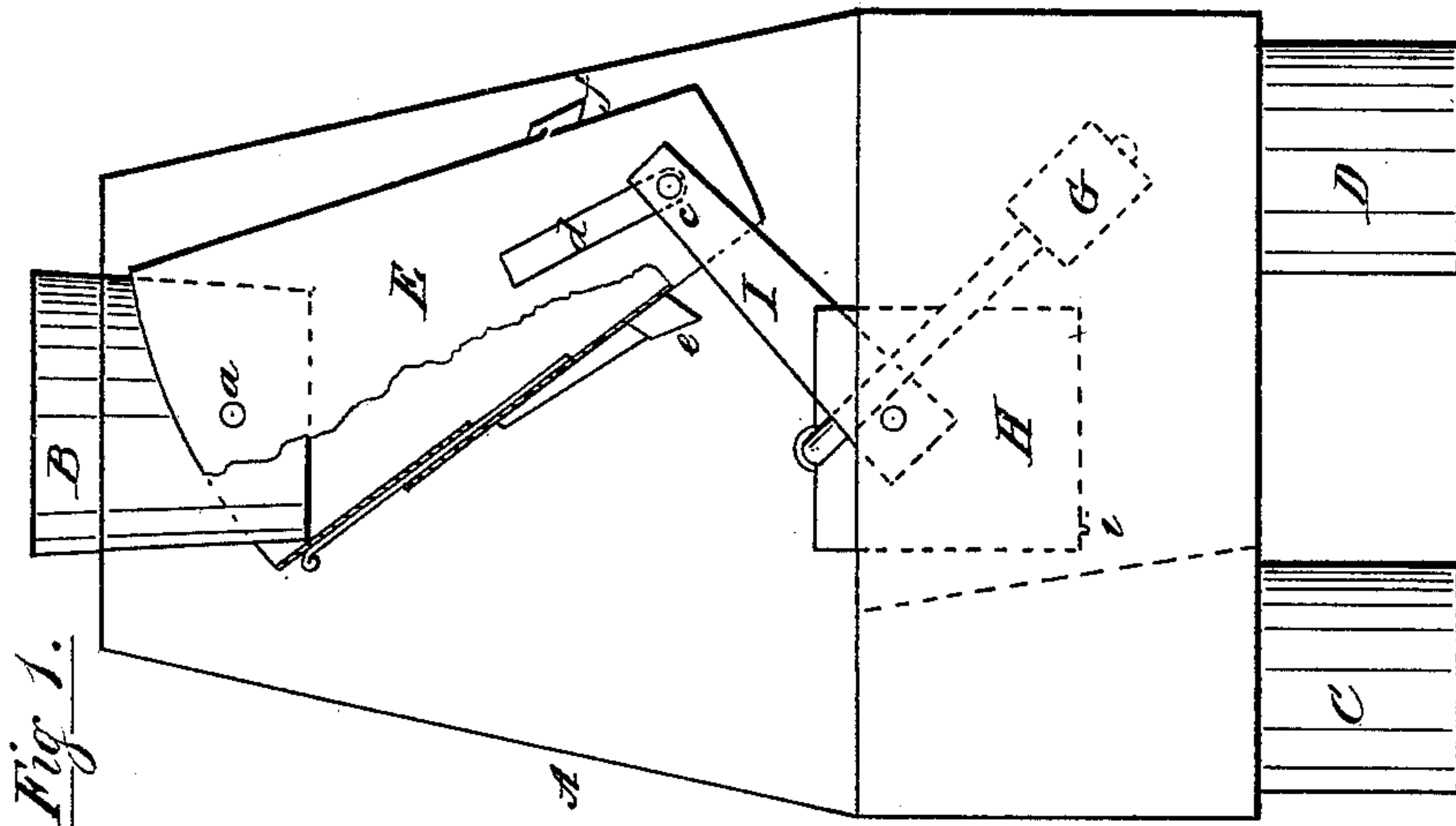


E. STEWART.
WATER-SPOUT CUT-OFF.

No. 176,491.

Patented April 25, 1876.



Witnesses.

W. Morris Smith.
G. H. Hale

Inventor.

Edward Stewart

UNITED STATES PATENT OFFICE.

EDWARD STEWART, OF FORT MADISON, IOWA.

IMPROVEMENT IN WATER-SPOUT CUT-OFFS.

* Specification forming part of Letters Patent No. **176,491**, dated April 25, 1876; application filed August 31, 1875.

To all whom it may concern:

Be it known that I, EDWARD STEWART, of Fort Madison, in Lee county, and State of Iowa, have invented an Improved Water-Spout Cut Off, (which invention is an improvement on my cut-off patented March 28, 1871, and numbered 113,108,) of which the following is a specification:

In the drawing accompanying this specification, Figure 1 represents the cut-off, partly in section, in position as when no rain is falling, and at the commencement of a rain. Fig. 2 shows the same device in the position automatically assumed after the roofs have become thoroughly washed by the rain.

The object of this invention is to produce a cut-off which is entirely automatic in its action, instead of requiring to be reset after every rain.

I will now describe the invention by referring to the drawing, in which the same letters refer to like parts in both figures.

A is the casing or jacket of the apparatus, and is provided with an induction-pipe, B, and two eduction-pipes, C D, the one, C, leading to the cistern or reservoir, and the one, D, to the surface of the ground, or into a convenient drain or sewer. To the lower part of the induction-pipe B is suspended, on a pivot, *a*, the funnel-shaped extension E, so as to have a swinging motion on said pivot, from side to side, within the casing A. This funnel-shaped extension E is controlled, as to its position within the casing A, by a weight or weights, G, in one direction, and by the accumulated water in the bucket H in the other direction,

so that when no rain is falling the weights G, operating through the elbow-lever I, by its pivot *c* at the upper end, on a groove or slot, *d*, formed on the side of the funnel E, retains said funnel in the position represented in Fig. 1 until the drip or leak from the chute *e* has filled the bucket H, during which time the roofs have become thoroughly washed off. The water in the bucket, then overbalancing the weights G, operates through the lever I to throw the funnel to the position represented in Fig. 2, when the water passing through it will be conducted to and through the pipe C to the cistern or reservoir, while any waste there may be in the bucket H is replaced by the leak through the chute *f* in the then lower side of the funnel until the rain ceases, when, this supply also ceasing, the water in the bucket H slowly leaks out through an aperture, *i*, at or near its bottom, to allow the weight G to preponderate, and thereby to swing the funnel to its normal position, in readiness to repeat the same operation whenever another rain may occur.

What is here claimed as new, and desired to be secured by Letters Patent, is—

The arrangement of the leak-orifices *e* and *f* in the opposite sides of the pendent funnel-shaped chute E, in combination with the bucket H and weight G, as and for the purposes specified.

EDWARD STEWART.

Witnesses:

W. MORRIS SMITH,
G. H. HALE.