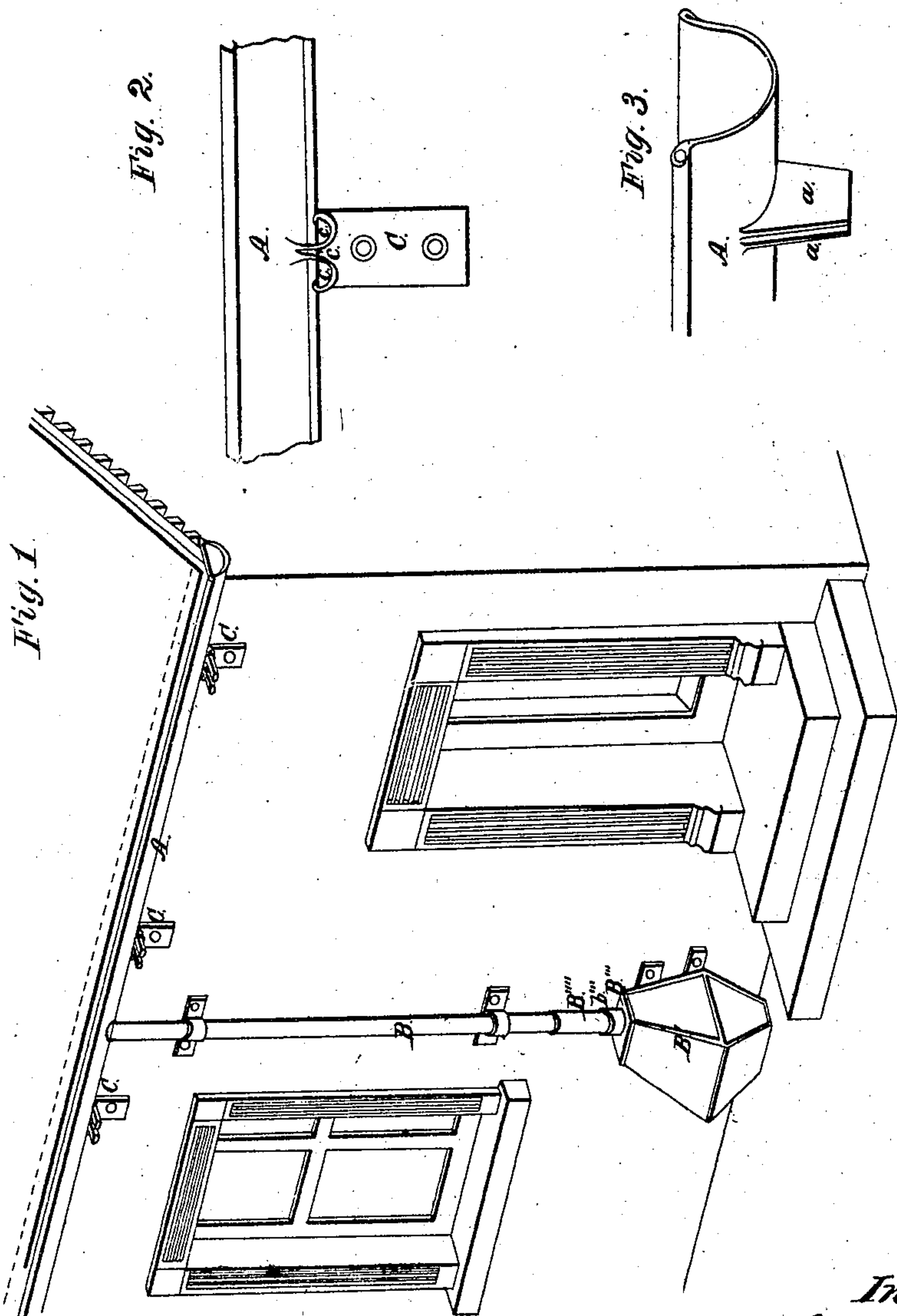


Sheet 1. 2. Sheets.

G. Williams.  
Rain Water Spout.

No 93,152.

Patented July 7, 1869.



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Fig. 4.

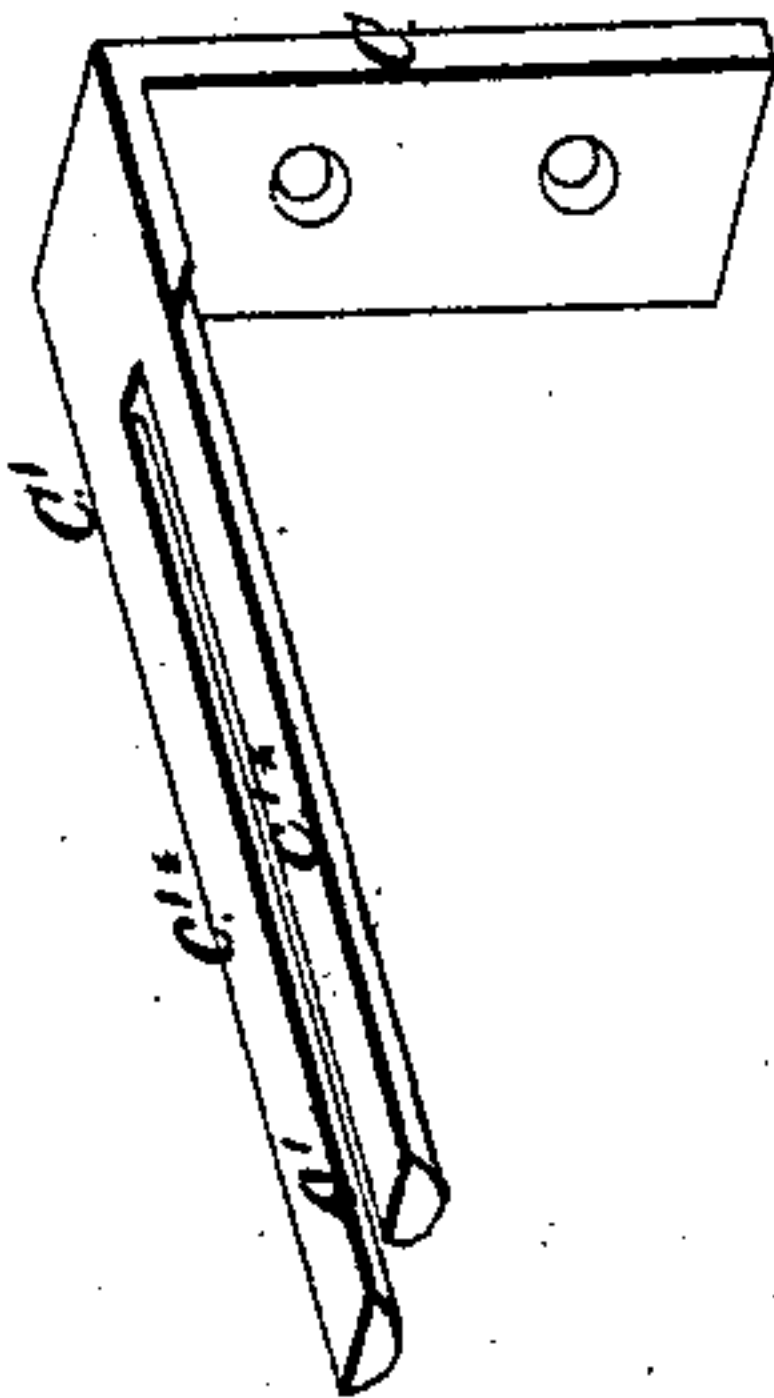


Fig. 6.

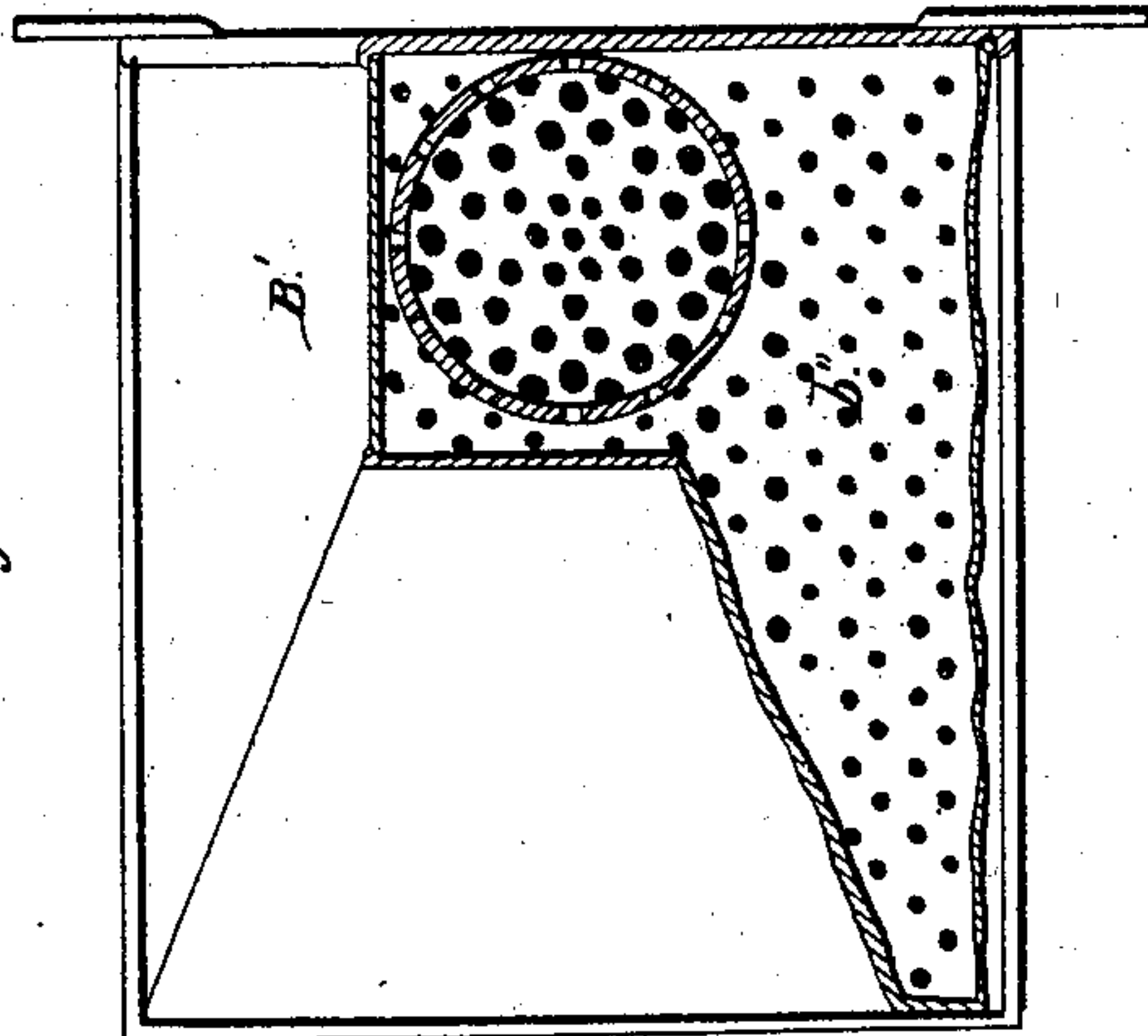
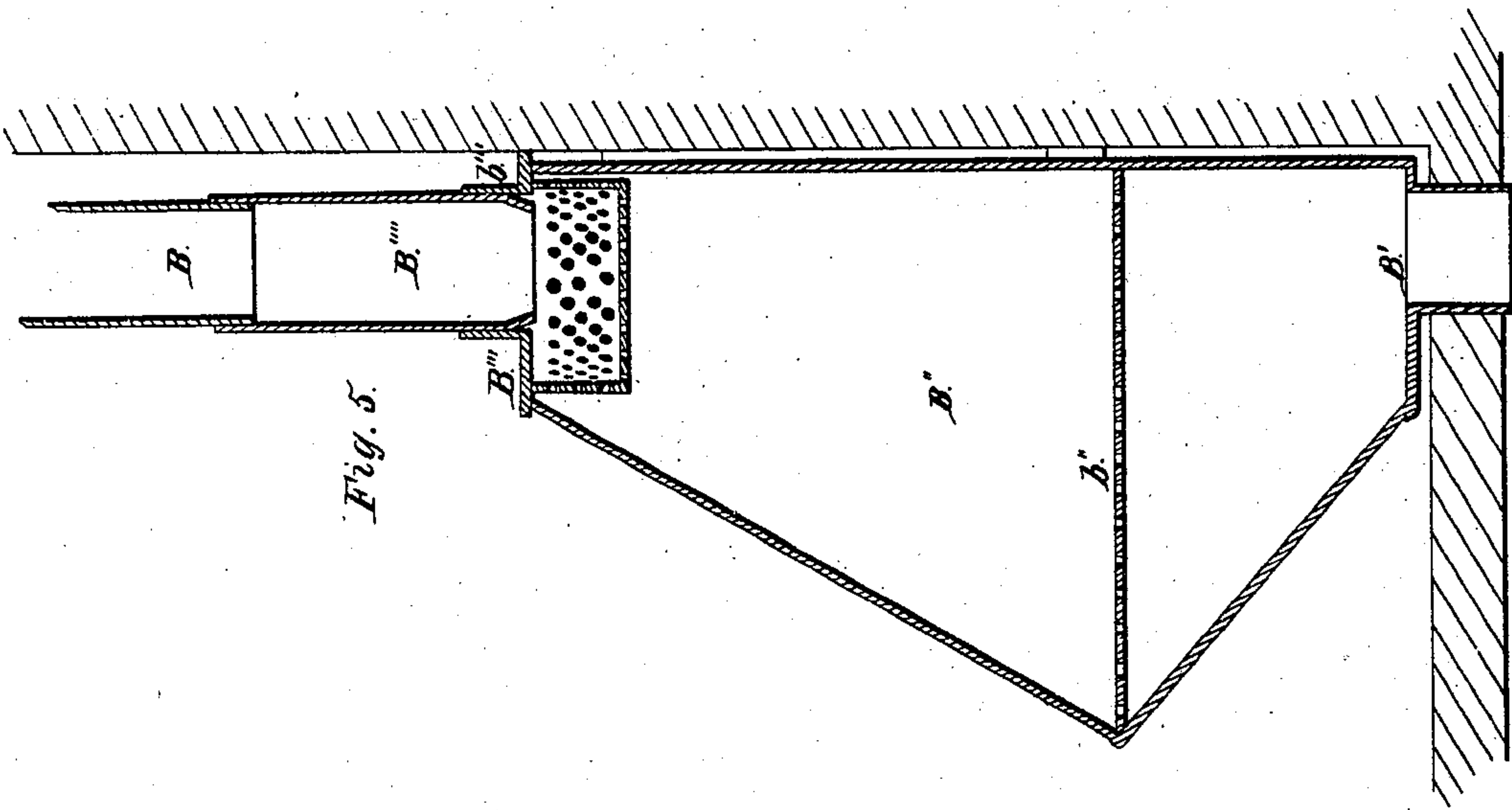


Fig. 5.



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# United States Patent Office.

GARRET WILLIAMS, OF WEST MIDDLEBURG, OHIO.

Letters Patent No. 93,152, dated July 27, 1869.

## IMPROVEMENT IN RAIN-WATER SPOUTING.

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, GARRET WILLIAMS, of West Middleburg, in the county of Logan, and State of Ohio, have invented a new and useful Improvement in Rain-Water Spouting; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, which are made a part of this specification.

My invention relates to the means for securing the trough in position, and the construction of the conductor which leads the water to the cistern.

The trough has lugs on its under side, at suitable intervals, which engage in the slits of forked holders, or brackets, previously secured to the wall or roof, said attachment forming a very simple and effective fastening for the trough, and adapting it to be readily applied, adjusted, and detached.

The conductor has an enlargement, at a convenient point, containing a strainer, or "leaf-catcher," and filtering-material; and, at the point where the rain-water enters the chamber formed by said enlargement, a sleeve-joint is provided, which permits the strainer to be readily removed, or the entire length in which the enlargement is formed, detached, to empty and cleanse it.

In the drawings—

Figure 1 represents a perspective view of a portion of a house provided with my improved rain-water spouting.

Figure 2 is an elevation, on an enlarged scale, of a portion of the eaves-trough and one of its supporting-brackets, or holders, representing the manner of attaching the former to the latter.

Figures 3 and 4 are detached perspective views, on about the same scale as fig. 2, of the parts represented in said figure.

Figure 5 is a vertical section, on a scale of about half the full size, of a portion of the conductor, representing the filtering-chamber and its adjuncts.

Figure 6 is a plan view, partly in section, of the parts represented in fig. 5.

A may represent the eaves-trough, and

B, the spout, or conductor leading from said trough to the cistern.

Both of said parts may, besides the particulars hereinafter specified, be constructed of the usual or any suitable form and material.

U C C represent brackets, or holders, arranged along the eaves at suitable intervals, and secured to the wall by screws or tacks, as shown, or to the roof or cornice, in any suitable manner, for the support of the eaves-trough.

These brackets are constructed, as seen most clearly in fig. 4, with an arm or extension, C, adapted to pro-

ject at about right angles from the side of the wall, and slitted, as shown at *c'*, the two bars, or members, *c\*c\**, of the fork thus formed, being preferably rounded, more or less, on their under side, as shown.

The eaves-trough A is provided, on its under side, with double slips, or lugs *a a a*, &c., of tin or other suitable metal, corresponding in position with the brackets C, in the slits *c'* of which they engage, being subsequently bent up around the bars *c\*c\** of said brackets, as represented in figs. 1 and 2, to secure the trough in place.

The rounded form of the bars *c\*c\** adapts the slips, or lugs *a* to be easily bent around them.

Said bars being of much greater length than said slips, or lugs, adapts the trough to be adjusted relatively to the house, as required.

The trough thus mounted may readily be removed or detached, for repair, &c., when required, without disturbing its integrity, by simply raising it slightly, at the point where it engages with the conductor, so as to clear its end, and slipping it outward off of the brackets.

The trough being supported from beneath, is less liable to sag or break loose from its fastenings, and may be more easily mounted than when supported from above, as heretofore they have chiefly been.

The spout, or conductor B is attached to the eaves-trough, and to the wall in the usual manner.

One of its sections, B', at a convenient point, preferably at or near the surface of the ground, is enlarged, as represented in figs. 1, 5, and 6, so as to form a chamber, B", which is provided with a separately-removable strainer, B"', forming its cap, and also with a perforated partition, *b''*, for the support of a suitable filtering-material, or materials, such as gravel and charcoal.

Leaves and other coarse litter in the water are caught by the strainer B"', and finer particles and chemical impurities are separated by the filtering-material in the chamber B".

The strainer B"' catching the larger impurities, requires emptying more often than the chamber B", and is, therefore, made separately removable.

The entire section B' is also adapted to be separated, to allow said chamber B" to be emptied, and the filtering-material cleansed and renewed when desired.

The strainer B"' is provided with a collar, *b'''*, in line and corresponding with the conductor proper, for the reception of the lower end of a section, or sleeve, B''', of sufficiently larger diameter than the section above it to slide freely thereon, to relieve said strainer, and allow it and the entire length B' to be removed, as before stated.

The section B' may communicate directly with the cistern, as represented in fig. 5, or through any number of interposed sections.

The relative proportions of the various parts are most accurately shown in figs. 2, 3, and 4, and figs. 5 and 6.

Having thus described my invention, the following is what I claim as new, and desire to secure by Letters Patent:

1. The brackets C C' c', employed in combination with the trough A, and attaching plates, or lugs a a, substantially as and for the purposes set forth.

2. I also claim the combined arrangement of the chamber B and strainers B'' b'', with the spout B B'', for the purpose specified.

To the above specification of my improvement in rain-water spouting, I have signed my hand, this 21st day of December, 1861.

GARRET WILLIAMS.

Witnesses:

F. R. WEST,  
I. POOL.