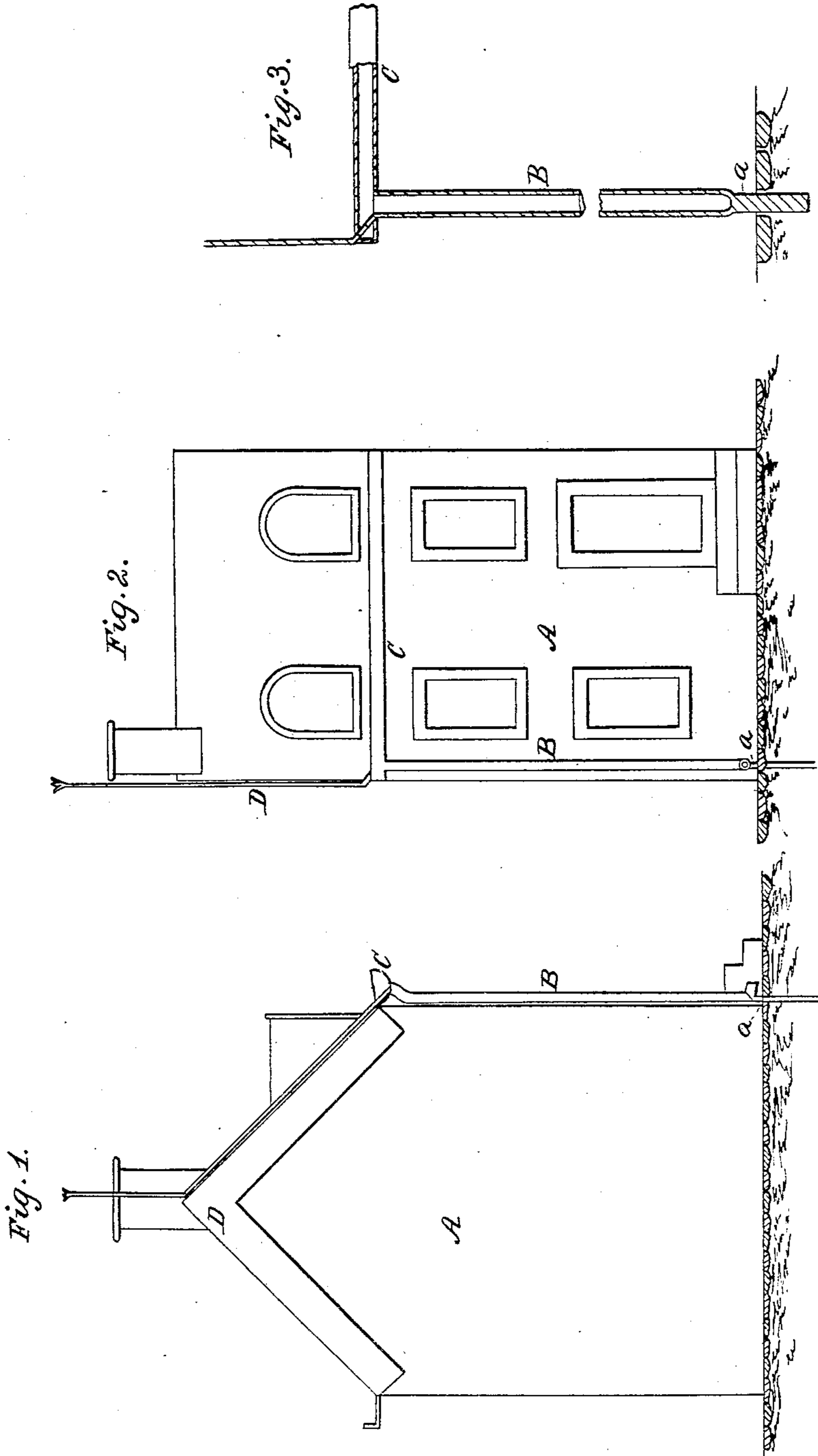


J. M. PATTERSON.

Lightning Rod.

No. 29,398.

Patented July 31, 1860.



Witnesses:  
*Henry Howson*  
*Horace Lee*

Inventor:  
*Jacob M. Patterson*

# UNITED STATES PATENT OFFICE.

JACOB M. PATTERSON, OF WOODBURY, NEW JERSEY.

## IMPROVED CONSTRUCTION OF LIGHTNING-RODS.

Specification forming part of Letters Patent No. 29,398, dated July 31, 1860.

*To all whom it may concern:*

Be it known that I, JACOB M. PATTERSON, of Woodbury, in the county of Gloucester and State of New Jersey, have invented a Combined Water-Spout and Lightning-Rod; 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, and to the letters of reference marked thereon.

My invention consists in combining the water-spout or the water-spout and gutter of a building with a lightning-rod substantially in the manner described hereinafter, so as to save expense and avoid the disfigurement of the walls by the numerous attachments required in the usual mode of erecting lightning-rods and spouts separate from each other.

In order to enable others to make and use my invention, I will now proceed to describe the manner in which I carry it into effect.

On reference to the accompanying drawings, which form a part of this specification, Figure 1 is a side view of a dwelling-house furnished with my combined water-spout and lightning-rod; Fig. 2, a front view, and Fig. 3 a detached view, of spout and rod.

A represents a house provided with a lightning-rod, D, spout B, and hanging gutter C, all being of metal, and secured to the building by means of insulated attachments.

The rods D and spout B are made in one continuous piece of metal, expanded and formed into a tube of suitable caliber, where required as a water-leader, and thus performs the functions of both water-spout and lightning-con-

ductor. The spout, as usual, terminates a short distance above the side-walk; but a strip of metal, *a*, is in this instance continued from the lower end of the spout, from whence it passes into the ground.

When an overhanging gutter is used, as shown in the drawings, it is attached to the spout, so as to form with the latter a continuous conductor, the gutter being, of course, insulated. When the usual brick-work gutters are used, however, the spouts may be insulated at the top both from the metallic lining of the gutter and from the building.

It will be seen, without further description, that the spout B forms with the rod D and strip *a* a continuous lightning conductor, and that not only a saving of expense is thereby effected, but the disfigurement of the front walls by the numerous attachments required by lightning-rods and spouts when used separately is avoided.

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

Making the lightning-rod D and water-spout or leader B of one continuous piece of metal so constructed and arranged that they will perform the double function of conductor and water-spout, as herein set forth.

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

JACOB M. PATTERSON.

Witnesses:

HENRY HOWSON,  
CHARLES D. FREEMAN.