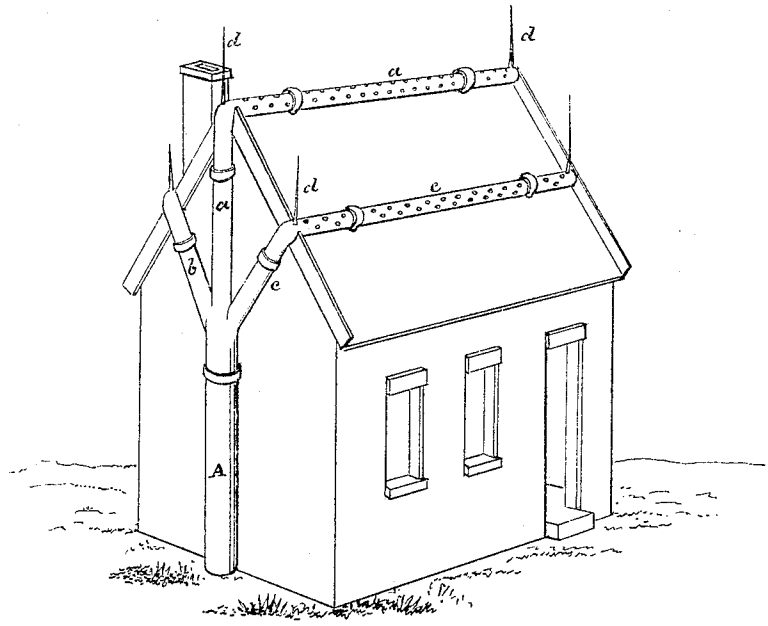
N. CARL.

Improvement in Combined Fire-Extinguishers and Lightning-Rods.

No. 128,534. Patented July 2, 1872.



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UNITED STATES PATENT OFFICE.

NELSON CARL, OF CINCINNATI, ASSIGNOR TO HIMSELF AND MARTIN BAXTER, OF DELTA, OHIO.

IMPROVEMENT IN COMBINED FIRE-EXTINGUISHERS AND LIGHTNING-RODS.

Specification forming part of Letters Patent No. 128,534, dated July 2, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that I, NELSON CARL, of Cincinnati, in the county of Hamilton and in the State of Ohio, have invented an Improved Perforated Pipe for Buildings; and do hereby declare that the following description, taken in connection with the accompanying plate of drawing, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvement, by which my invention may be distinguished from others of a similar class, together with such parts as I claim and desire to secure by Letters Patent.

My invention relates to water-pipes to be used for extinguishing fire in burning buildings; and consists in providing the building with perforated pipes, constructed and arranged as hereinafter set forth.

In the accompanying drawing, illustrating my invention and forming a part of the specification thereof, a view of a building is given with my invention applied thereto.

The construction of my invention may be described as follows:

A pipe of any required size connecting with the main water-pipe in the street, and having a shut-off at the sidewalk in the ordinary manner, is extended to the gable-end of the building and up the same, as shown in the drawing, letter A, to a point within six or eight feet of the vertex or ridge of the roof, from which point it branches in the pipes *a b c*, each of these being of one-third the capacity of the pipe A. These smaller pipes are continued and run along upon the roof; the pipe *a* upon the ridge and the pipes *b* and *c* on either side, parallel with pipe *a* and midway between the ridge and the eaves, and said pipes are provided with pointed metallic rods *d*, thereby causing the said water-pipes to act as lightning-conductors. The pipes upon the roof are perforated on the upper sides, so that in case of fire in the neighborhood the water may be turned on and discharged upon the roof through the perforated pipes, and its ignition thus prevented.

The device described may also be successfully used in buildings used for theatrical purposes by placing a number of the perforated pipes parallel in the building over the scenery or other parts where it is most liable to take fire, in case of which the water may be turned on and such parts quickly flooded. The system is also well calculated for use in villages, not having the advantages of water-works, by connecting the pipe to an ordinary force-pump. Also, in a building having many rooms, the pipes may be arranged to extend to each room, having a perforated hollow ball attached to the extremity, so that a fire in any part of the building may be readily extinguished.

Having thus described the construction and operation of my invention, I claim, and desire to secure by Letters Patent—

The water-pipes, provided with pointed metallic rods, when arranged upon the roof of a house, as and for the purposes herein described.

In testimony that I claim the foregoing, I have hereunto set my hand this 12th day of October, 1870.

NELSON CARL.

Witnesses:

C. MOORE,

JOHN W. CARTER, Jr.