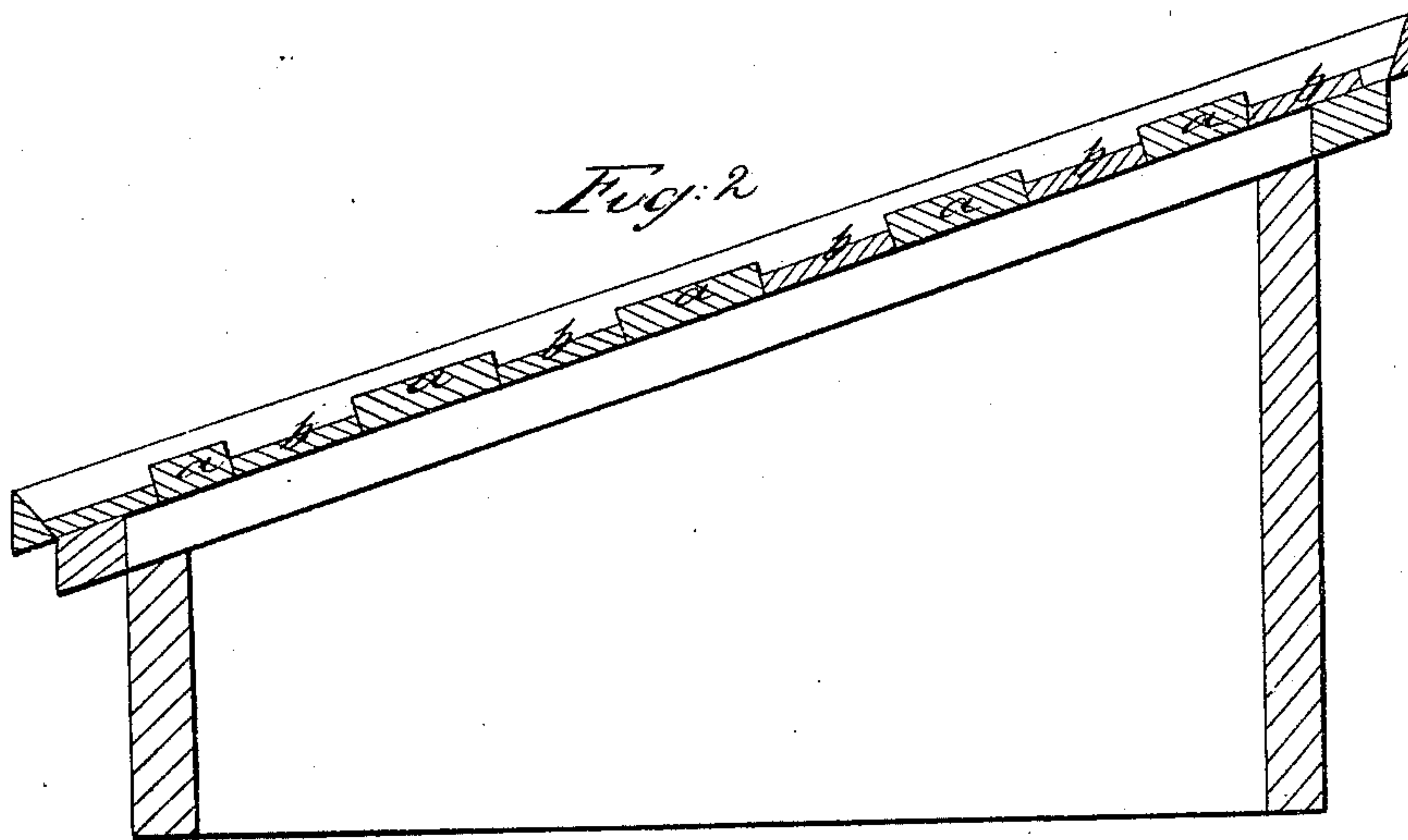
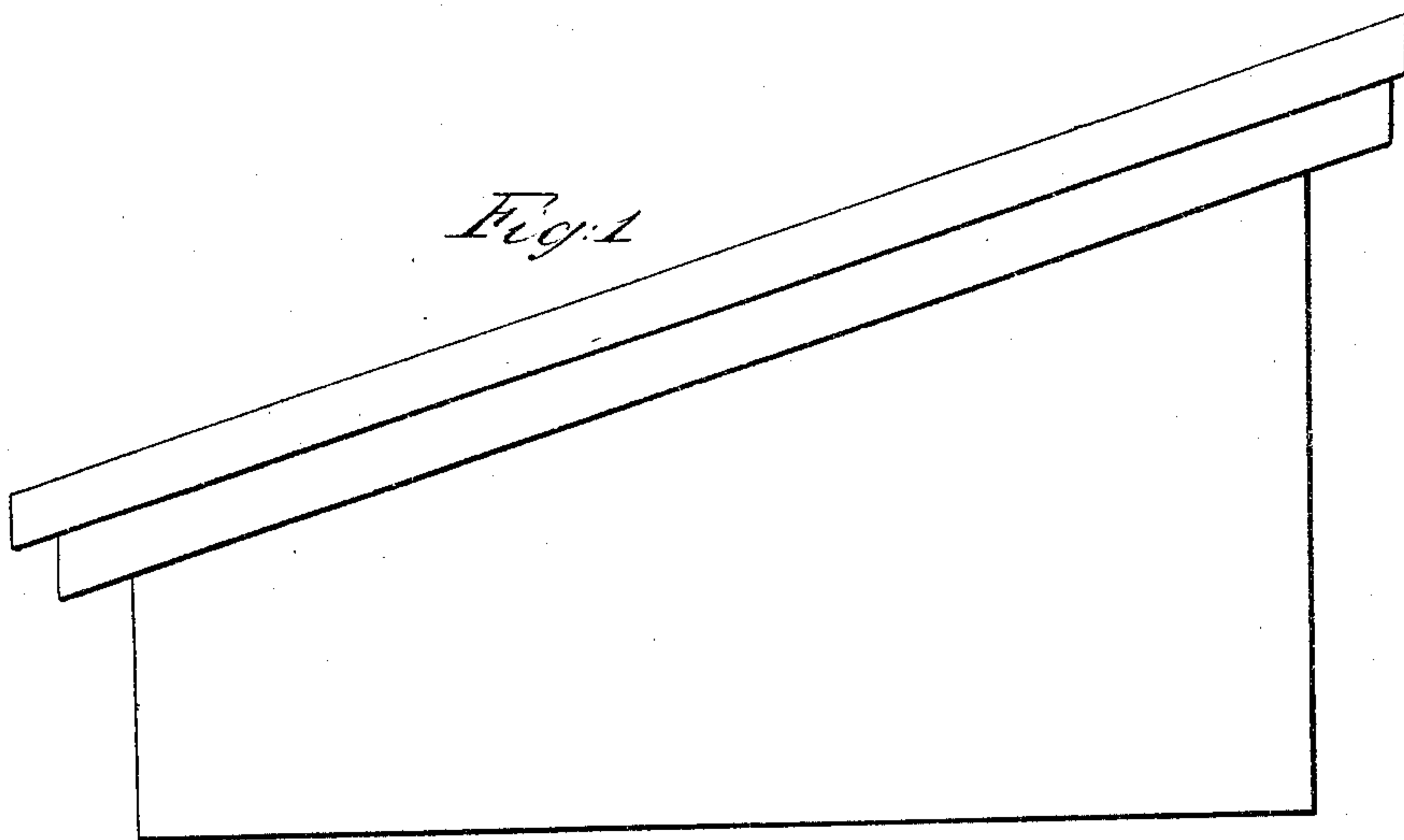


J. DUKE.  
ROOFING.

No. 34,200.

Patented Jan. 21, 1862.



Witnesses  
L. G. Pymant  
B. B. Elbe

Inventor  
John Duke

# UNITED STATES PATENT OFFICE.

JOHN DUKE, OF MILESBURG, PENNSYLVANIA.

## IMPROVED ROOFING.

Specification forming part of Letters Patent No. 34,200, dated January 21, 1862.

*To all whom it may concern:*

Be it known that I, JOHN DUKE, of Milesburg, in the county of Center, in the State of Pennsylvania, have invented a new and Improved Mode of Roofing; and I do hereby declare that the following is a full and exact description thereof.

The composition which I use for the formation of the roof is composed of the following ingredients, viz: gas-tar or coal-tar, fine gravel and sand, and plaster. These ingredients are compounded in the following manner, varying some little in their proportions, according to the nature and purity of the sand used: Mix the gravel, sand, and plaster, taking two parts of such gravel and sand as can be sifted through a quarter or half inch riddle and one part plaster. Combine with this mixture a sufficient quantity of gas-tar or coal-tar to thoroughly saturate the mixture. The composition is then ready to use.

I form the base of the roof on which the composition is to be placed by covering the rafters with boards of different thickness, succeeding each other alternately, as represented in Figure 2 of the accompanying drawings by the small letters *a* and *b*.

I spread the compound from one-half to three-quarters of an inch thick on the base, prepared as above designated, and then roll it until compact with a small roller, and as I roll it, I sprinkle the surface with fine sand.

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

A roof constructed in the manner and of the material as above set forth.

JOHN DUKE.

Witnesses:

C. G. RYMAN,  
B. B. ELSE.