

W. G. STERLING.
ROOFING.

No. 10,833.

Patented Apr. 25, 1854.

Fig. 1.

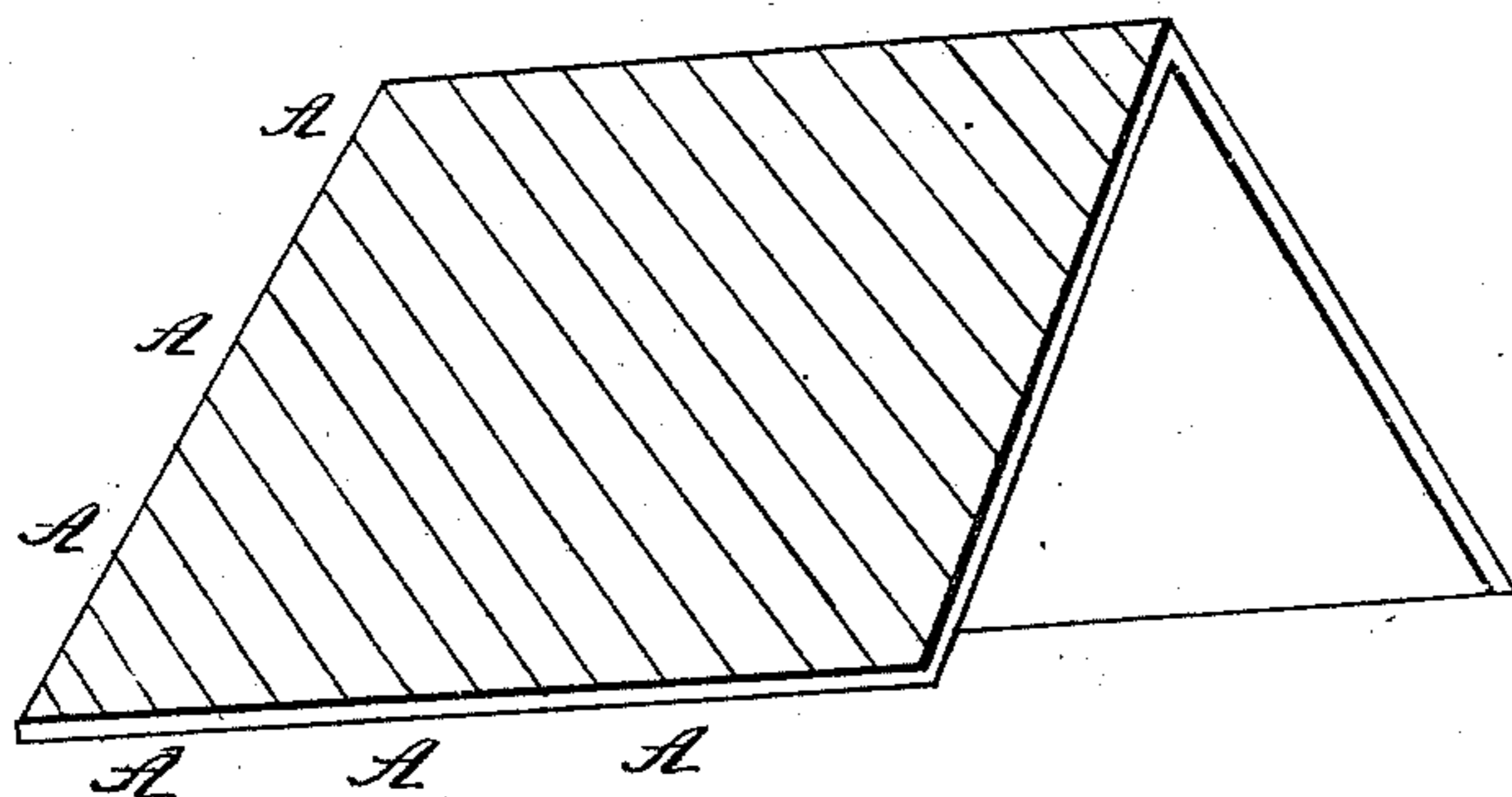
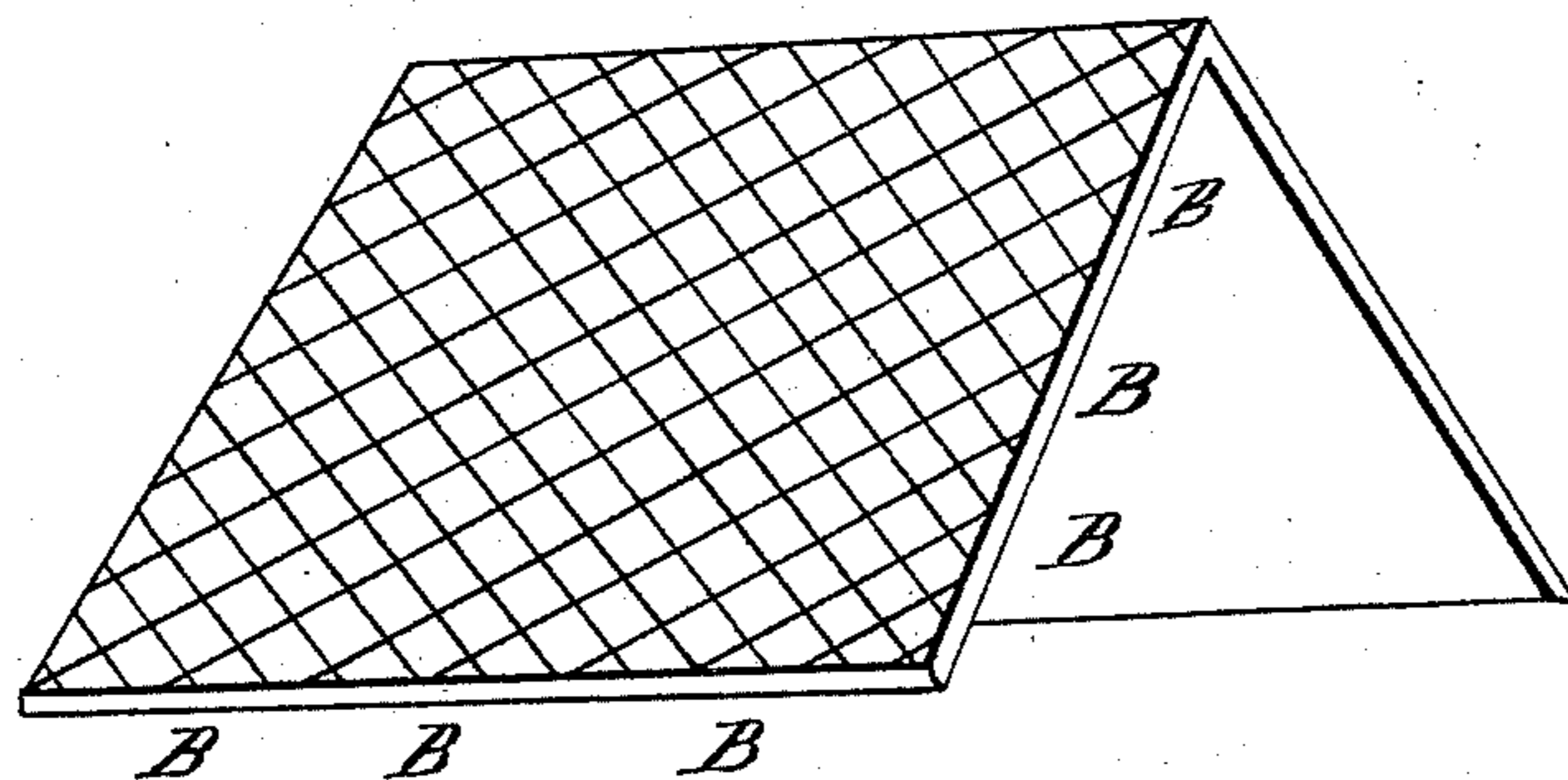


Fig. 2.



Witnesses.

J. H. Bennett
W. G. Sterling

Inventor.

W. G. Sterling.

UNITED STATES PATENT OFFICE.

WM. G. STERLING, OF BRIDGEPORT, CONNECTICUT.

FORMING ROOFS.

Specification of Letters Patent No. 10,833, dated April 25, 1854.

To all whom it may concern:

Be it known that I, W. G. STERLING, of Bridgeport, Fairfield county, State of Connecticut, have invented a new and Improved
5 Mode of Forming Roofs of Cement and other Materials Used as Cement.

The following is a full and correct description of my invention.

10 It is well known by those who work in cement, that it has little tendency to adhere to any other substance, except brick, or stone, and when it is applied to wood it very soon cracks and cleaves off, which limits the use of cement in building. My inven-
15 tion obviates this difficulty, by the riveting, or firmly securing together, by iron wire, the entire surface of a roof, so that if it should crack by the settling of the building, or from other causes, it will not cleave off.
20 or leak, as the parts cannot be separated from each other.

My manner of forming a roof is as follows: Over the rafters place common cloth or other basis, the size of the roof to be
25 constructed, which is firmly secured to the rafters by nails or tacks; over this covering across the rafters, about three inches apart, place iron wires about an eighth of an inch in size, as shown in the drawing, which is

annexed, Figure 1, letters A, A, A. Over 30 these wires in a contrary direction place other wires, in the same manner as shown in Fig. 2, letters B, B, B. The entire surface of the roof is to be reticulated with these wires. Where they cross over the rafters 35 drive small wire staples, which will secure the wires in their places, and hold the roof firmly. On this reticulated wire work the cement to form the roof is to be plastered, completely covering the wire work, which 40 will prevent it from rusting and sustain the cement in its place.

I do not claim as my invention the application of cements for roofs or plastering the same on boards or timber, the contraction 45 and expansion of which causes the cement to crack; neither do I claim the plastering of cement on lath of any kind whatever, as this has been done before; but

What I claim, is—

The use of reticulated wire embedded in cement where cloth is used as a foundation, for the purpose above set forth.

Bridgeport, Oct. 12th, 1853.

W. G. STERLING.

Witnesses:

J. H. BENNETT,
D. H. STERLING.