

F. GEIER.
Thatched Roofs.

No. 152,478.

Patented June 30, 1874.

Fig. 1

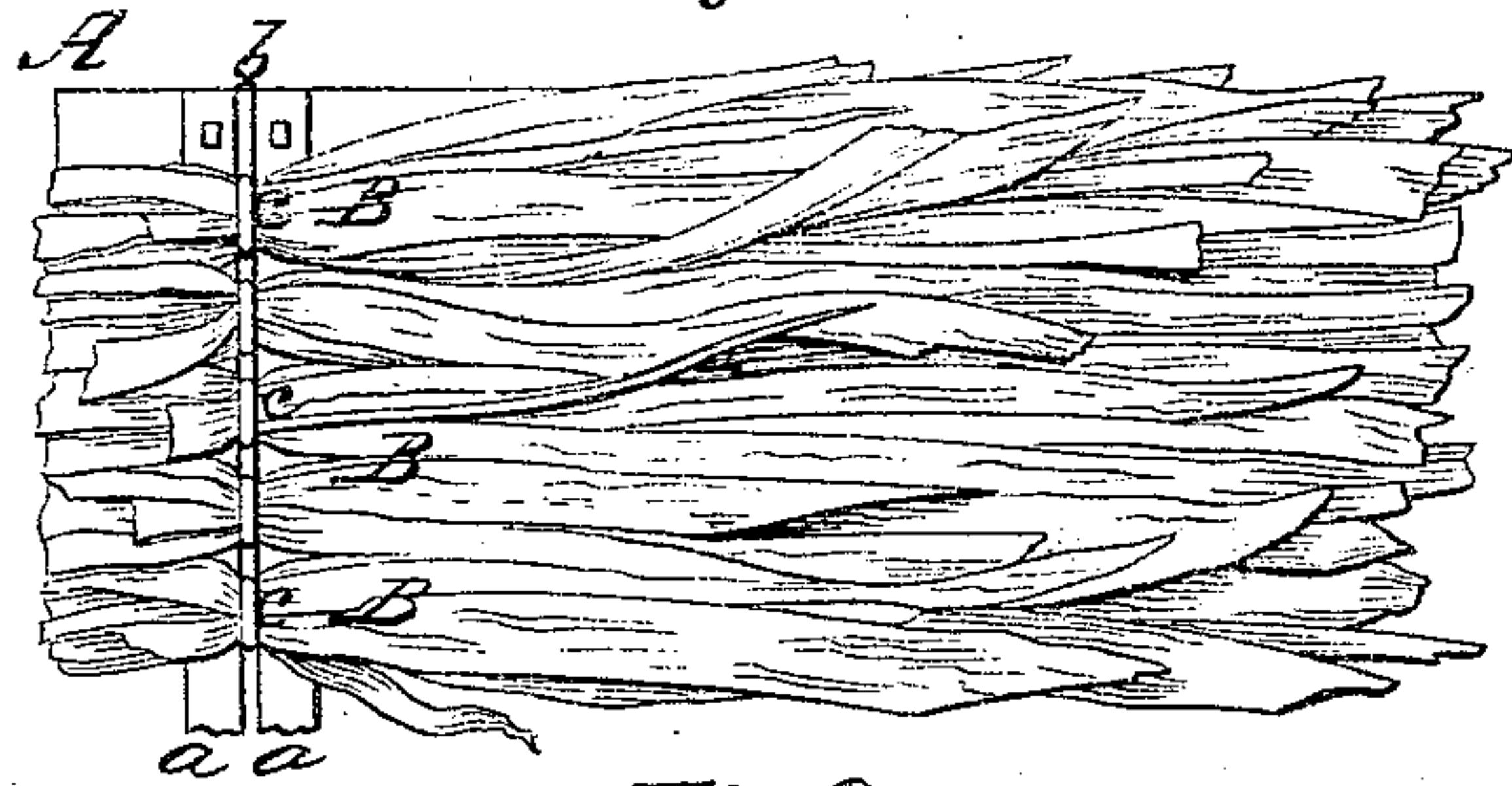


Fig. 2

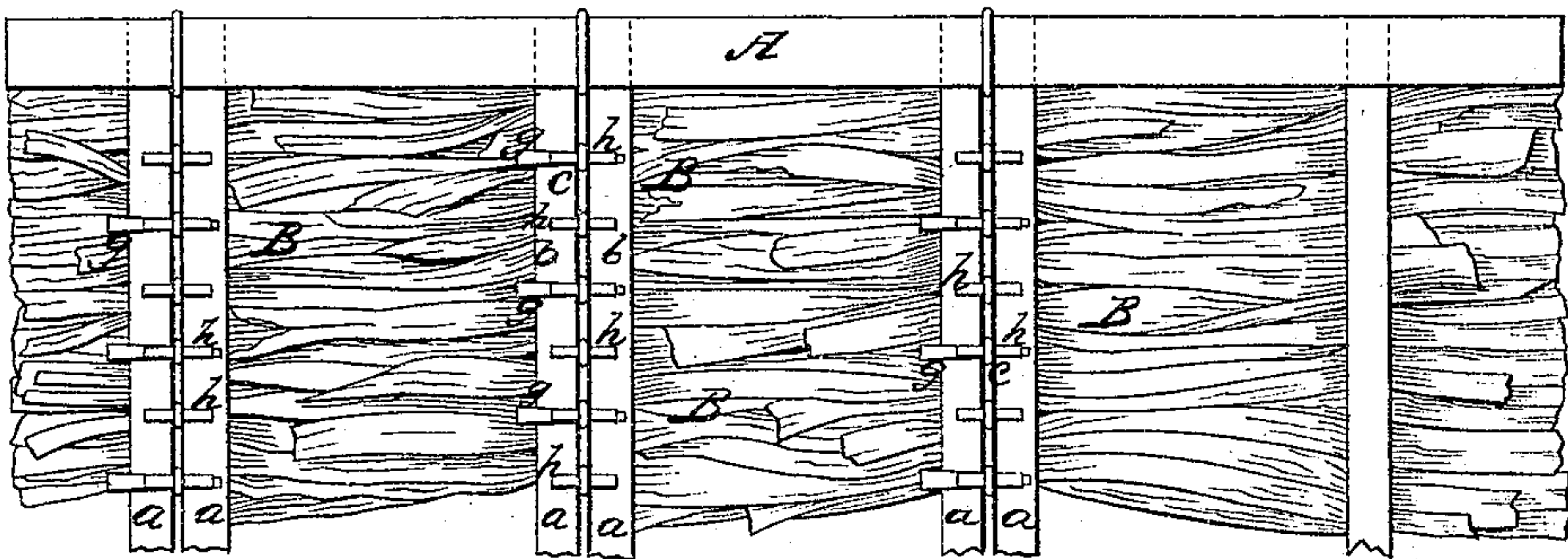


Fig. 3

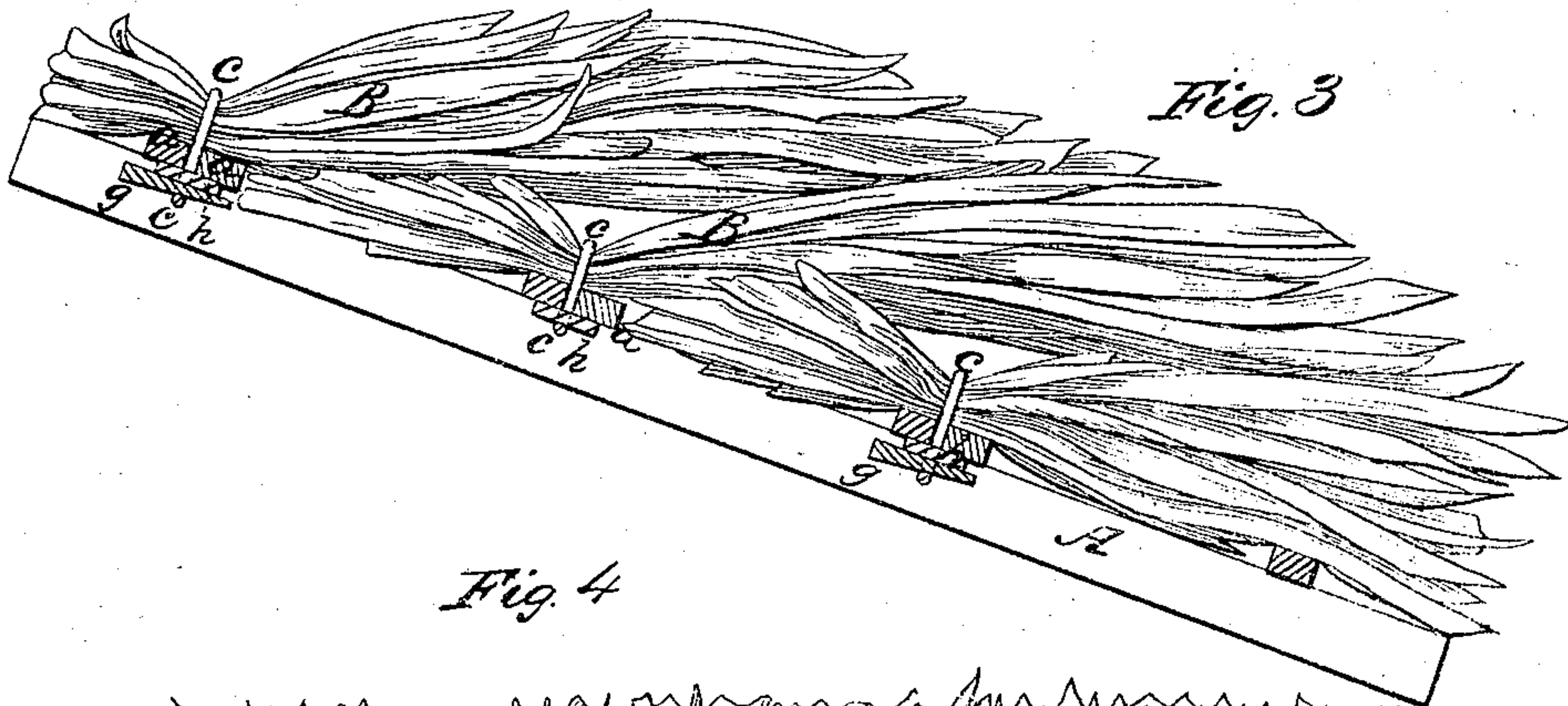
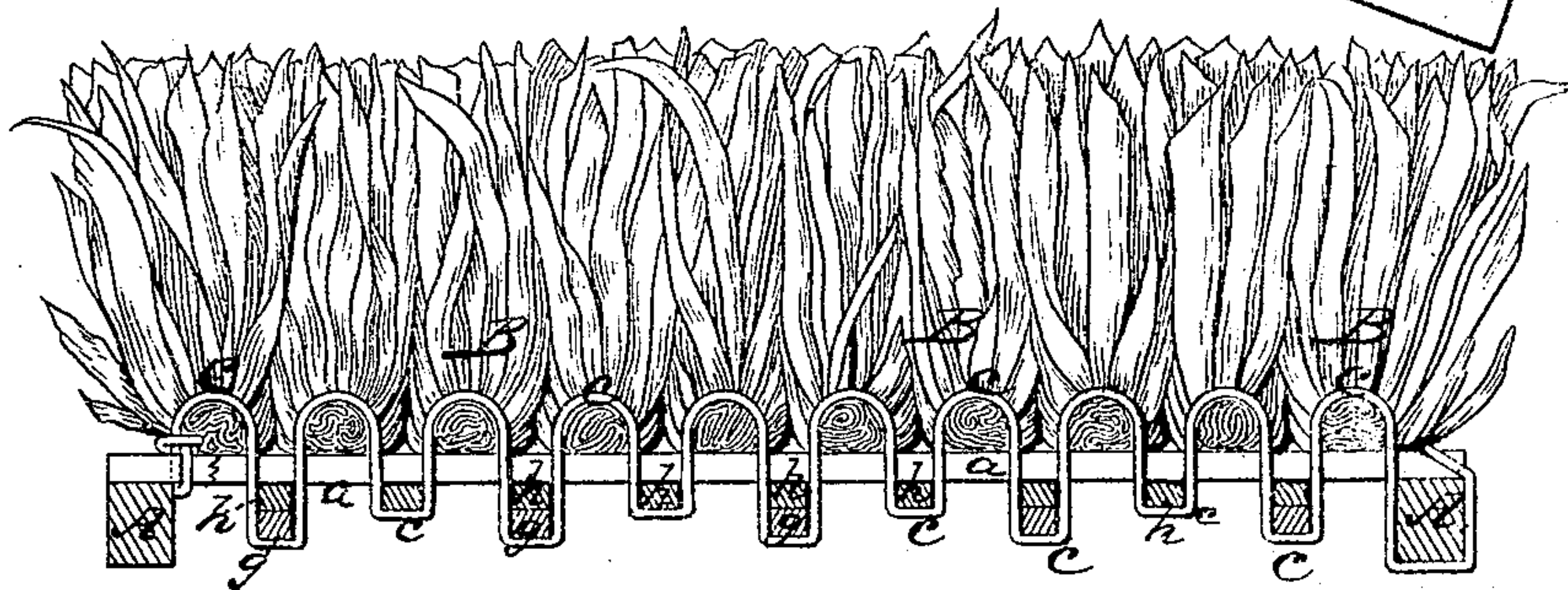


Fig. 4



WITNESSES

Villette Anderson.
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UNITED STATES PATENT OFFICE

FREDERICK GEIER, OF ALICE, IOWA.

IMPROVEMENT IN THATCHED ROOFS.

Specification forming part of Letters Patent No. **152,478**, dated June 30, 1874; application filed May 9, 1874.

To all whom it may concern:

Be it known that I, FREDERICK GEIER, of Alice, in the county of Grundy and State of Iowa, have invented a new and valuable Improvement in Thatched Roofs; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a top view of my roof, and Fig. 2 is a bottom view. Fig. 3 is a longitudinal section, and Fig. 4 is a transverse section.

This invention has relation to thatched roofs; and it consists in securing the wisps of corn-shucks or other material to the roof-frame by means of wire loops and wedges, in such manner that the wisps can be readily tightened should they, from any cause, become loose, as will be hereinafter explained.

In the annexed drawings, A A designate roof-beams, which, with cross-bars *a a* secured to them, constitute the frame of the roof. The cross-bars *a a* are arranged at suitable distances apart, each pair having a narrow space between them sufficiently wide to allow the free passage of wires *b*. B B designate the wisps, which may be of any suitable sub-

stance—such as corn-shucks, straw, and the like—and which are gathered closely together at their ends, and bound down upon the cross-bars *a a* with the wires *b*, commencing at the lower edge of the roof, and building upward, layer after layer, in courses extending cross-wise of the roof. The wiring is done by passing it, in loops, *c*, alternately over each wisp and under a wedge, *g*. Between the wedges *g* and the cross-bars are inserted transversely bits of wood, *h*. If desired, a less number of wedges may be used, so that every other bottom loop, or every two or three bottom loops, may be provided with a bit of wood only.

A thatched roof thus constructed can be very easily repaired, and the wisps can be tightened by simply driving the wedges *g*.

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

A thatched roof the wisps B of which are secured to cross-bars *a a* by means of wire loops *c*, in combination with holding and tightening wedges *g*, substantially as described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

FREDERICK GEIER.

Witnesses:

E. H. BERKMAN,
WM. C. WILLIAMS.