

J. LOPPACKER.

Battening.

No. 156,298.

Patented Oct. 27, 1874.

Fig. 1

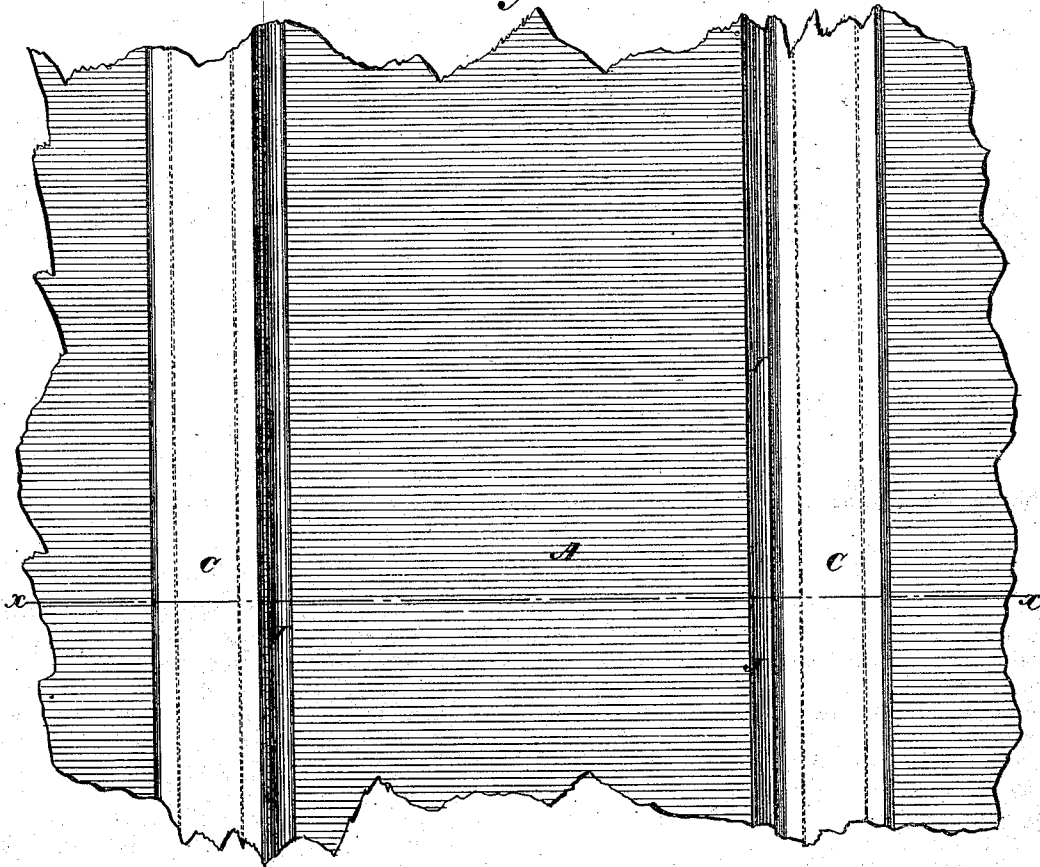
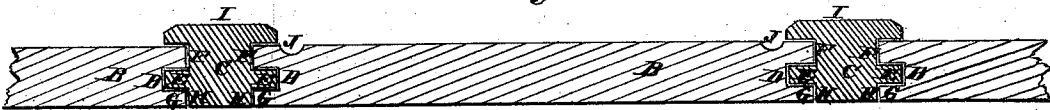


Fig. 2



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN LOPPACKER, OF NEW YORK, N. Y.

IMPROVEMENT IN BATTENING.

Specification forming part of Letters Patent No. **156,298**, dated October 27, 1874; application filed September 12, 1874.

To all whom it may concern:

Be it known that I, JOHN LOPPACKER, of the city, county, and State of New York, have invented a new and useful Improvement in Roofing and Ceiling, of which the following is a specification:

The invention will first be fully described, and then pointed out in the claim.

Figure 1 is a top view, and Fig. 2 is a cross-section of Fig. 1 on the line *x x*.

Similar letters of reference indicate corresponding parts.

A represents the roofing or ceiling. B are the boards, and C the cleat-pieces by which the boards are connected. The edges of the boards are grooved, as seen at D D. E E are tongues. F F are grooves, and H H are rabbets of the cleat-piece, which receive the tenons G G of the boards, as seen in the draw-

ing. I is the cleat which overlaps the boards, and is held tightly thereto. J is a groove in the boards for conducting water off. The lower side of the cleat-piece is flush with the lower sides of the boards B, as represented. By this mode the boards and cleat-pieces are securely locked together and the possibility of leakage is avoided.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination, with side-mortised boards B, of the intermediate cleats C, having extension H, against which the lower edges G G abut, as shown and described.

JOHN LOPPACKER.

Witnesses:

T. B. MOSHER,
ALEX. F. ROBERTS.