

J. B. CORNELL.

Metallic Cornices and Gutters.

No. 144,259.

Patented Nov. 4, 1873.

Fig. 1.

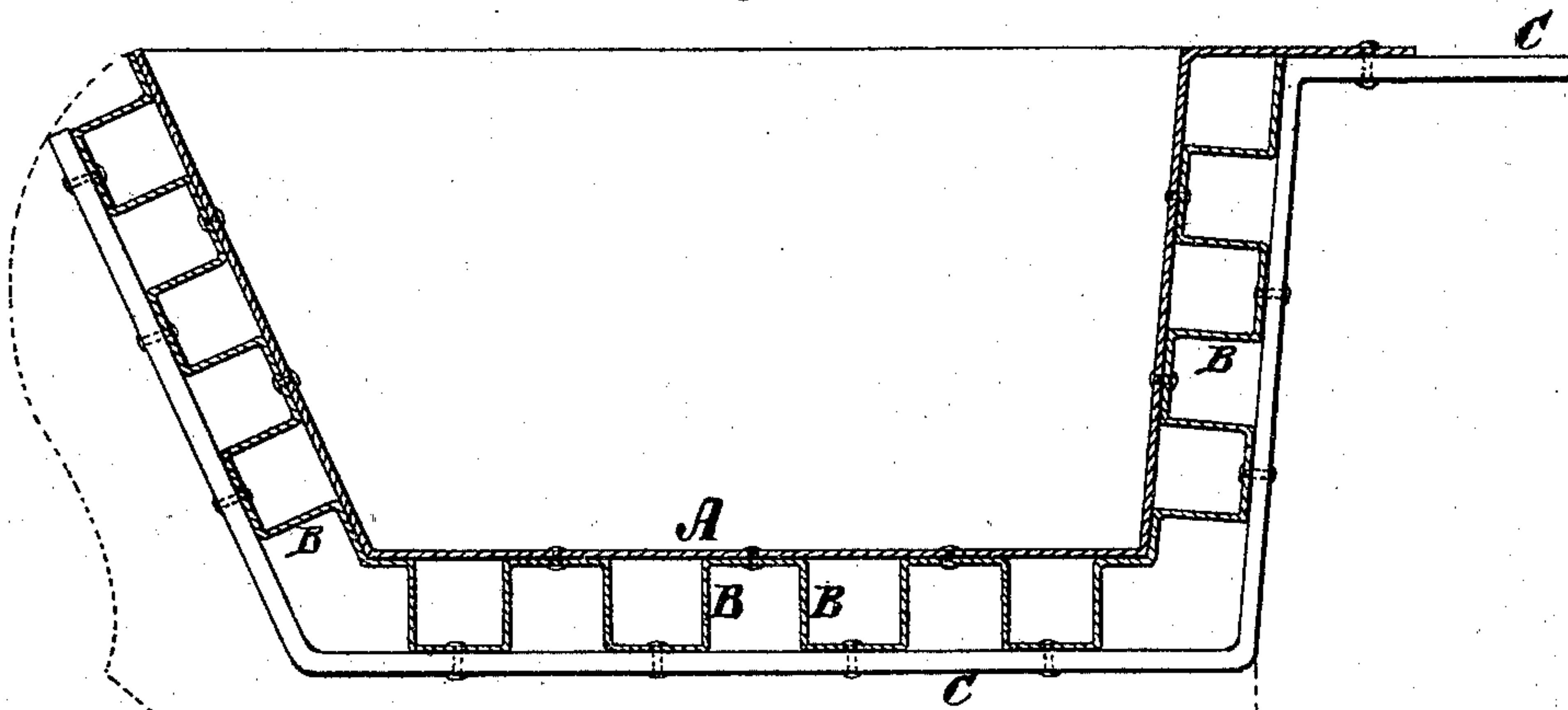
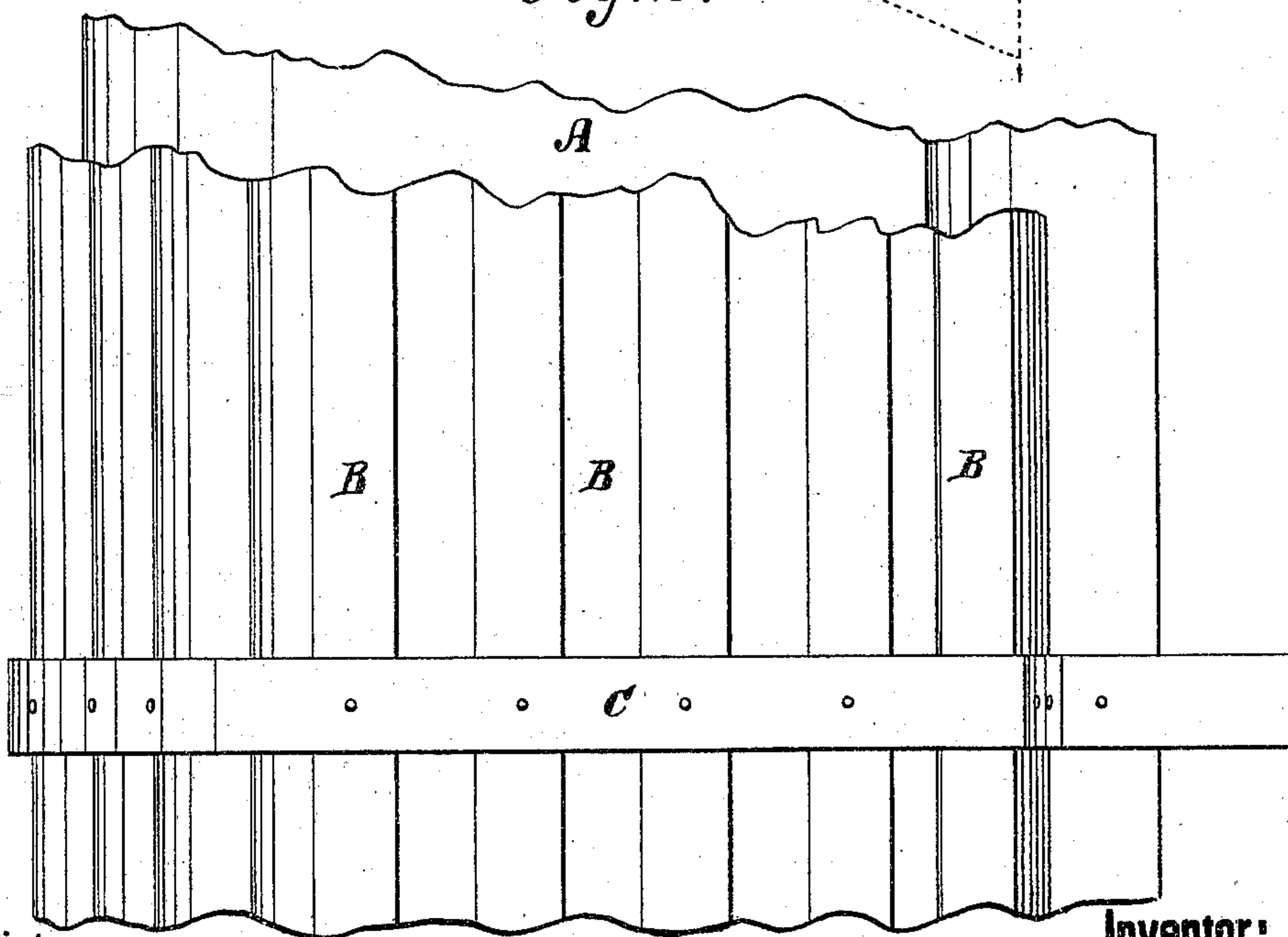


Fig. 2.



Witnesses:

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Inventor:

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UNITED STATES PATENT OFFICE.

JOHN B. CORNELL, OF NEW YORK, N. Y.

IMPROVEMENT IN METALLIC CORNICES AND GUTTERS.

Specification forming part of Letters Patent No. **144,259**, dated November 4, 1873; application filed October 4, 1873.

To all whom it may concern:

Be it known that I, JOHN B. CORNELL, of the city, county, and State of New York, have invented a new and useful Improvement in Sheet-Iron Cornices, Gutters, &c., of which the following is a specification:

In the application of galvanized sheet-iron cornices, gutters, &c., to buildings, it has been the usual practice to employ wooden planks beneath or within any broad surfaces of the sheet metal, to give it a bearing throughout its extent, and prevent its becoming seriously dented. The use of these wooden planks is, however, objectionable on account of danger from fire.

My invention consists in the application of what I call a channel-iron bed-plank, in lieu of the wooden plank or board heretofore used for supporting the lining of gutters, cornices, and roofs, where the outer cover is of sheet metal.

Figure 1 is a cross-section of a gutter and cornice constructed according to my invention. Fig. 2 is a plan of the bottom of the gutter and the channel-iron bed-plank.

Similar letters of reference indicate corresponding parts.

A is the galvanized sheet-iron gutter. B is the channel-iron bed-plank, and C represents the supporting bars or brackets. The said

supporting-plate consists of a thin sheet-metal plate, channeled or grooved longitudinally for stiffening it, the grooves or channels being made sufficiently narrow, and at suitable intervals of space from each other, to afford the requisite bearing-surface for supporting the lining or cover A, so as to protect it from being indented.

In these respects it will vary according to circumstances—for instance, the channels will be narrower, and the spaces wider, for thin lining or covering A than for thick lining; but, generally, the arrangement will be about as represented in the drawing.

This kind of supporting-bed is lighter, stronger, and cheaper than the wooden plank of the same capacity, and is fire-proof and more durable.

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

The employment of channel-iron bed-plank B for supporting the lining of gutters, cornices, and roofs, when the outer cover is thin sheet metal, substantially as specified.

JOHN B. CORNELL.

Witnesses:

H. W. REDFIELD,
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