

(No Model.)

J. D. OTTIWELL.
METALLIC CEILING.

No. 343,775.

Patented June 15, 1886.

✓ *Fig. 1.*

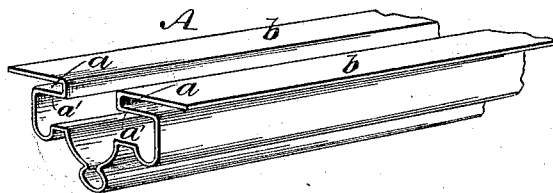


Fig. 2.

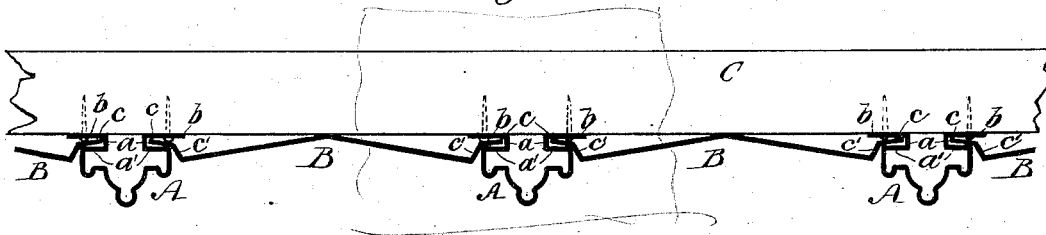
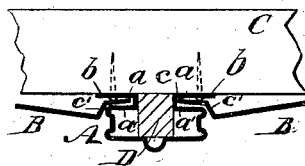


Fig. 3.



WITNESSES:

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METALLIC CEILING.

SPECIFICATION forming part of Letters Patent No. 343,775, dated June 15, 1886.

Application filed November 5, 1885. Serial No. 181,922. (No model.)

To all whom it may concern:

Be it known that I, JOHN D. OTTIWELL, of the city, county, and State of New York, have invented a new and Improved Metallic Ceiling, of which the following is a full, clear, and exact description.

My invention relates to ceilings constructed of panels and moldings of sheet metal; and the invention consists, principally, in forming the molding with side flanges, so it may be "nailed" to the beams or to furring-strips, and also in so constructing each molding that it will receive and hold the edges of the panels, thus avoiding the necessity of nailing the panels, and facilitating the work of putting up the ceiling.

The invention also consists in flaring the edges of the panels so that they will bind in the recesses of the moldings, all as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of a part of a molding made in accordance with my invention. Fig. 2 shows a beam having my panels and molding applied thereto to form a ceiling; and Fig. 3 is a detailed sectional elevation of a modification, showing a molding applied to a furring-strip.

The molding A is formed with side recesses, *a a*, and shoulders or ledges *a' a'* to receive and support the side edges of the panels B. The lower surface of the molding A may have any desired ornamental outline, and each molding is formed with two flanges, *b b*, by which it may be secured to the beams C by nails driven through the flanges into the beams, as shown in Figs. 2 and 3. The panels B may be ornamental and given any desired shape, and at their side edges they are by preference bent to form the downwardly-inclined flanges

c c, which are designed to bind in the recesses *a*, so the panels B, when in place, will be firmly held in the moldings. From the flanges *c* the panels are bent downward, as shown at *c' c'*, and then upward to the center, thus giving the panels an arched shape in cross-section.

In order to stiffen or straighten the molding, when necessary, I shall use a furring-strip, D, secured to the beams C, and over which the moldings may be placed, as shown in Fig. 3.

By forming the molding, as described, with flanges *b*, the nails that hold the molding are entirely concealed, and the molding may be very easily secured to the beams, and by adapting the molding to hold the panels all nailing of the panels is avoided, and the panels are left free to expand and contract with varying temperature without loosening the molding, and without displacing or disfiguring any part of the ceiling.

My invention is also applicable to the side walls as well as to the ceilings of buildings.

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

1. The molding A, bent to form recesses for the edges of the panels, and formed with the flanges *b*, substantially as and for the purposes set forth.

2. The moldings A, formed with supporting ledges *a'*, in combination with the panels B, held by the ledges *a'*, substantially as described.

3. The molding A, formed with supporting-shoulders *a'* and flanges *b*, in combination with the panels B, bent to form the flanges *c*, substantially as and for the purposes set forth.

JOHN D. OTTIWELL.

Witnesses:

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C. SEDGWICK.