

R. GOHO.
METAL CEILING CONSTRUCTION.
APPLICATION FILED NOV. 23, 1908.

920,563.

Patented May 4, 1909.

Fig. 1.

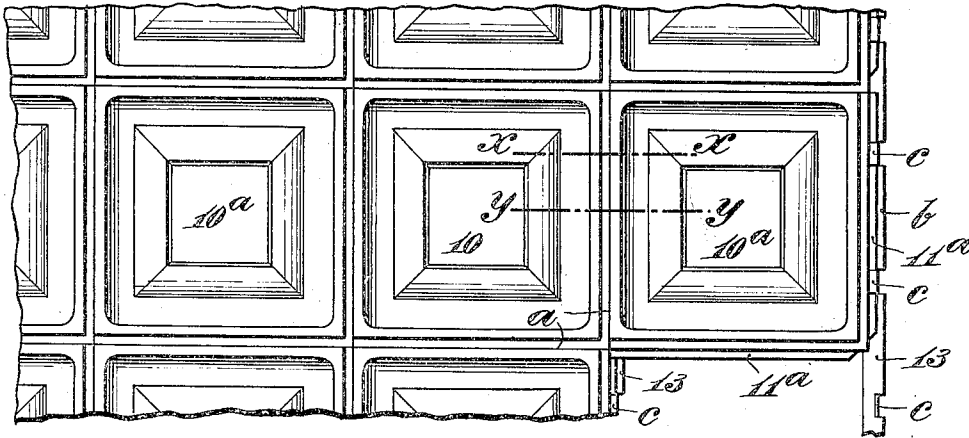


Fig. 2.

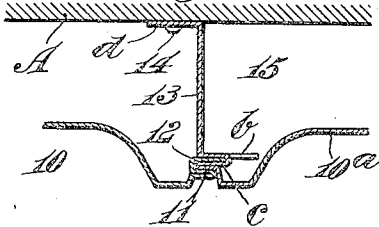


Fig. 3.

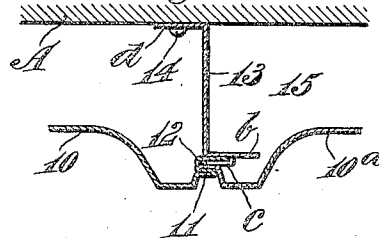


Fig. 4.

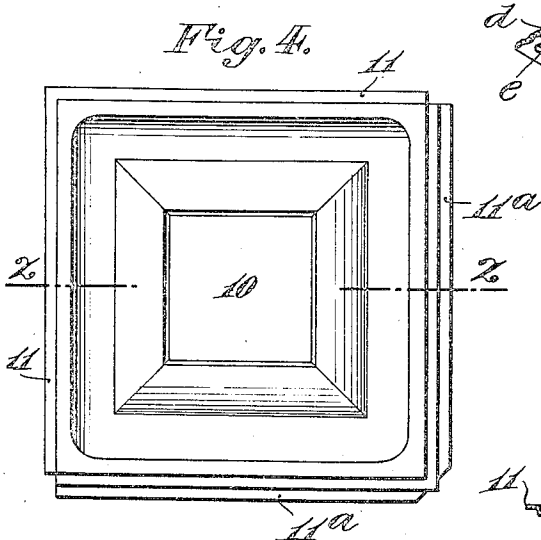


Fig. 5.

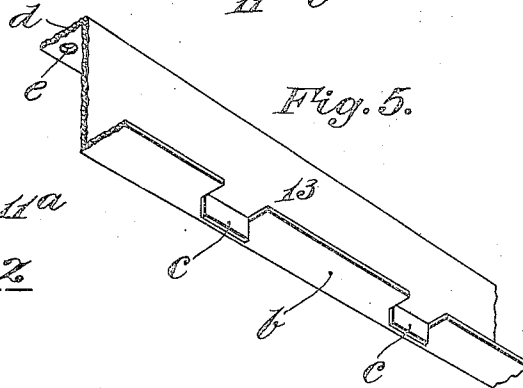
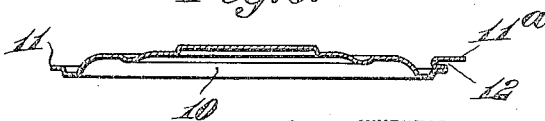


Fig. 6.



WITNESSES:

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METAL-CEILING CONSTRUCTION.

No. 920,563.

Specification of Letters Patent.

Patented May 4, 1909.

Application filed November 23, 1908: Serial No. 464,109.

To all whom it may concern:

Be it known that I, REUBEN GOHO, a citizen of the United States, residing at the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Metal-Ceiling Constructions, of which the following is a specification.

My invention has relation to metal ceiling constructions, composed of ornamental or plain metal sections or plates lock-jointed to each other, in position, and provided with concealed metal supports clampingly engaging certain of the lock-jointed sections or plates, in position, in forming the metal ceiling and adapted to be secured to joists or beams so as to provide required air space between such and the sections or plates, in position.

To the foregoing end, my invention stated in general terms, consists of a metal ceiling construction, composed of lock-jointed sections or plates supported by means clampingly engaging certain of the united sections or plates and detachably secured to joists or beams so as to provide a surrounding air space and so as to conceal the supporting means from view when the respective sections or plates are in position lock-jointed to each other, substantially in the manner hereinafter described and claimed.

The nature, scope and characteristic features of my said invention will be more fully understood from the following description taken in connection with the accompanying drawings forming part hereof, in which—

Figure 1, is an inverted plan view of a series of metal sections or plates lock-jointed to each other, to illustrate one form of a portion of a metal ceiling construction adapted for the employment of concealing supporting means therefor by clampingly engaging therewith and joists or beams embodying main features of my present invention. Figs. 2 and 3, are respectively sectional views on the lines *x, x*, and *y, y*, of Fig. 1. Fig. 4, is a top or plan view, enlarged, of one of said plates or sections, showing the engaging tongues thereof for entering a groove of a similarly arranged plate or section so as to become lock-jointed to each other, in position. Fig. 5, is a perspective view of the form or shape of the supporting means for the united lock-jointed ceiling sections or plates, in position; and Fig. 6, is a transverse

sectional view on the line *z, z*, of Fig. 4, showing the integral arrangement by stamping and bending of the same.

Referring to the drawings 10, 10^a, are metal sections or plates, one provided with a side tongue 11, and the other provided with a side groove 12, wherewith the tongue 11, is adapted to be forced into or inserted so as to bring the meeting plain or ornamental edges of the fronts of the sections or plates 10 and 10^a, into juxtaposition to each other at *a*, for example, as clearly illustrated in Fig. 1.

13, is a Z-shaped supporting means struck up preferably, from sheet metal and provided in one transverse surface *b*, with struck-up lips *c*, and in other transverse surface *d*, with openings *e*, at suitable distances apart, for respectively, slipping the lips *c*, onto a tongue 11^a, of a section or plate 10, and so as to be then bent down onto the same below a groove 12, into which the tongue 11, of a corresponding section or plate is adapted to be inserted as clearly shown in Figs. 2 and 3, and with the transverse part *d*, adapted to be provided with openings *e*, brought into contact with a beam or joist A, to become fastened thereto by a nail or other fastening means 14, as to securely hold in suspended condition the said supporting means 13, therefrom; and also so as to provide a surrounding air space 15, between the joists or beams A, and sections or plates lock-jointed to each other, in position, and when so arranged, in duplicated series, constituting the ceiling construction, as clearly shown in Fig. 1. The manner of lock-jointing the series of sections or plates to each other is clearly shown in Figs. 2 and 3. The suspended form of the said means from the joists or beams A, is also clearly illustrated in Figs. 2 and 3.

Hitherto sheathing and metallic plates for facing walls have been constructively arranged, for example, as shown and described in the Patents No. 358,175 of February 22nd, 1887, and No. 801,154 of October 3rd, 1905, but the features, constructively as so arranged therein, I expressly disclaim *per se* as of my present invention, but on the contrary only such features in a sheathing when coupled with supporting means of certain configurations and features in operative relation for use, as to their defined functions when combined, as hereinbefore explained, and specifically hereinafter claimed.

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

A metal ceiling construction, comprising
5 a series of uniting sections or plates, one of said uniting sections or plates having a flanged groove and the other having a tongue, in combination with a Z-shaped device for clampingly engaging the grooved
10 member of said uniting sections or plates so as to securely hold said tongue and groove

sections together against detachment and in a supported position, substantially as and for the purposes set forth.

In witness whereof, I have hereunto set 15 my signature in the presence of two subscribing witnesses.

REUBEN GOHO.

Witnesses:

H. W. HEMPHILL,
THOMAS M. SMITH.