

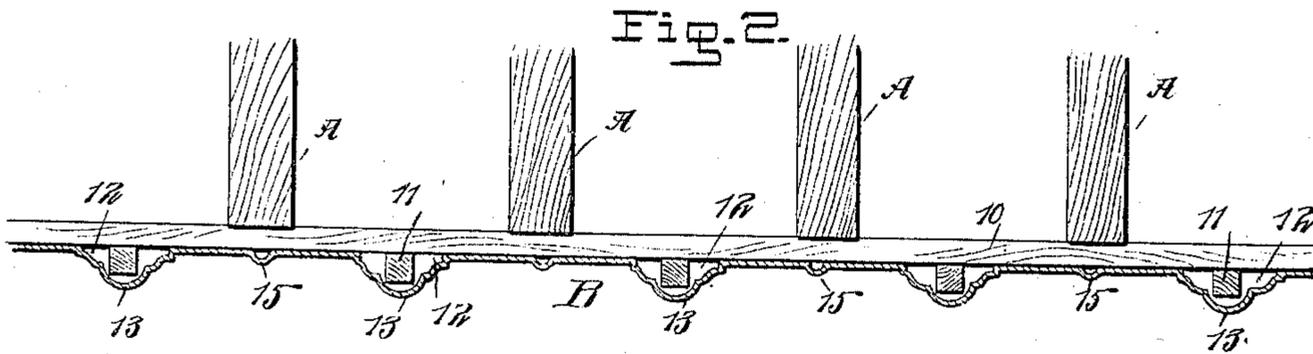
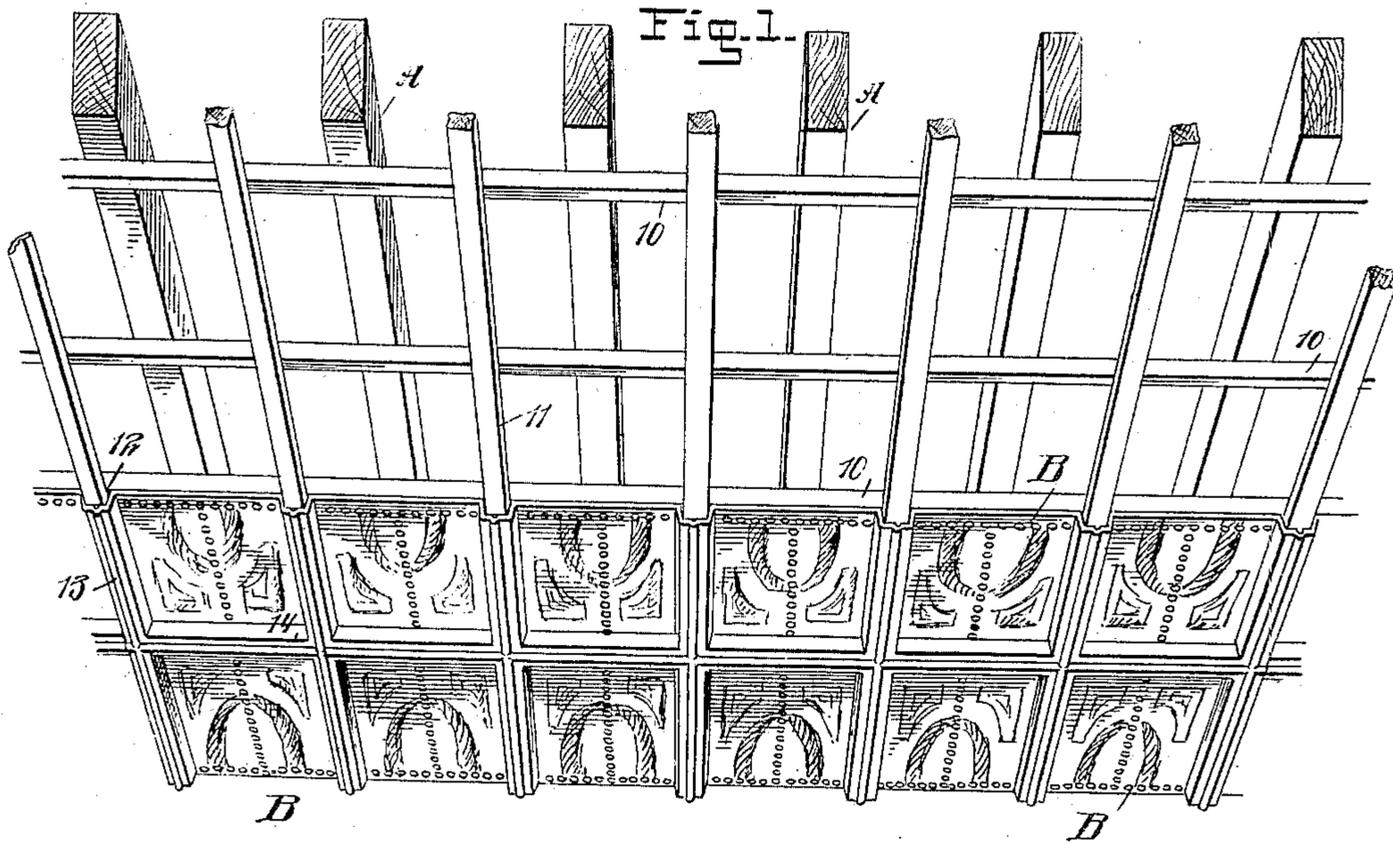
No. 672,362.

Patented Apr. 16, 1901.

F. H. S. HAWLEY.  
METAL CEILING.

(Application filed Nov. 14, 1900.)

(No Model.)



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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REPUBLIC, ASSIGNOR OF ONE-HALF TO CHARLES S. PEARSE, OF  
SAME PLACE.

## METAL CEILING.

SPECIFICATION forming part of Letters Patent No. 672,362, dated April 16, 1901.

Application filed November 14, 1900. Serial No. 36,539. (No model.)

*To all whom it may concern:*

Be it known that I, FREDRICK HENRY SPARR HAWLEY, a citizen of the United States, and a resident of Pretoria, South African Republic, but at present residing at Durban, Natal, have invented a new and useful Improvement in Metal Ceilings, of which the following is a full, clear, and exact description.

One purpose of the invention is to simplify and cheapen the work of erecting metal ceilings by so constructing the plates or panels that they may be quickly and systematically laid upon a foundation consisting of two series of furring-strips, one series being at angles to the other series of furring-strips and the upper series resting upon the upper surfaces of the furring-strips of the lower series, thereby dispensing with the necessity of recessing and interlocking the said strips.

Another purpose of the invention is to so form the plates or panels that they may be laid in the same horizontal plane upon a ceiling structure of the character described and secured thereto in a convenient manner.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

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

Figure 1 is a perspective view of a portion of a ceiling constructed in accordance with my invention; and Fig. 2 is a vertical section through the ceiling, the section being taken transversely through the floor joists or girders and through the furring-strips extending parallel with the floor joists or girders, and the section being likewise taken transversely through plates attached to the furring-strips.

A represents the floor joists or girders of a structure, upon the bottom portion of which furring-strips 10 are secured, extending transversely across the girders, as shown in Fig. 1, and another series of furring-strips 11 is attached in any suitable or approved manner to the under face of the furring-strips 10, the two series of furring-strips being at angles to each other.

The plates or panels B, shown formed from

a continuous strip, are laid upon and secured to the structure above mentioned, and the panels are supported by grooves 12, which grooves produce offsets 13 at the front faces of the panels at opposite sides, so that the body portion of each panel or plate B is sunken or in intaglio. The grooves are so made that they accommodate and neatly receive the undermost furring-strips 11, as shown in the drawings, so that the body portions of the panels may be brought in engagement with the uppermost furring-strips 10 and secured thereto by nails, tacks, or their equivalents.

In order that the plates or panels B may be systematically laid out at the opposite edges of each plate or panel, a transverse offset 14 is provided, corresponding to the side offsets 13 and connecting therewith, the opposite transverse edge of each plate or panel being left plain, as shown in Fig. 1; but if it be desired to make a double panel the transverse offset 14 is placed at the central portion of the panel, or at a point about centrally between its ends, and the side offsets 13 extend from end to end of such double panel. Under this construction it is obvious that the foundation for the panels—namely, the furring-strips 10 and 11—need not be recessed or mortised, so as to interlock, and under the improved construction the foundation for the panels or plates may be more quickly and securely erected than under the usual construction. The panels are illustrated as provided with offsets 15 between the grooved offsets at the sides; but it will be understood that the said offsets are simply in the nature of decorations and may be omitted if it be found desirable.

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

1. In metal ceilings, two series of furring-strips one series being at angles to the other series, the furring-strips of the upper series resting upon the upper surface of the furring-strips of the lower series, and plates or panels having offset portions forming grooves, which grooves receive the furring-strips of the lower series, the body portion of the panels being arranged to engage with the upper

series of furring-strips and adapted to be secured thereto, as described.

2. In metal ceilings, two series of furring-strips one series being at angles to the other  
5 series, the furring-strips of the upper series being supported upon the upper surface of the furring-strips of the lower series, and plates or panels having offset edges forming  
10 strips of the lower series, the body portions

of the panels or plates being in intaglio and adapted for attachment to the furring-strips of the upper series, as described.

In testimony whereof I have signed my name to this specification in the presence of 15 two subscribing witnesses.

FREDRICK HENRY SPARR HAWLEY.

Witnesses:

V. J. REED,

H. A. RAYNER.