

No. 648,869.

Patented May 1, 1900.

T. HORN.
TILE CEILING, WALL, &c.

(Application filed Feb. 5, 1900.)

(No Model.)

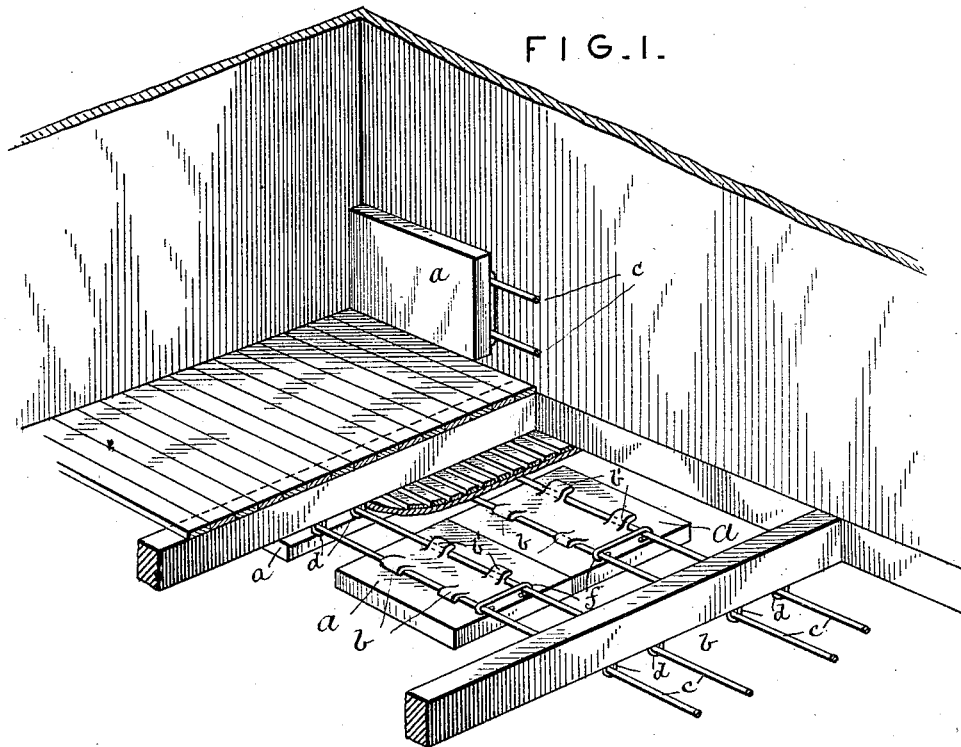


FIG. 2.

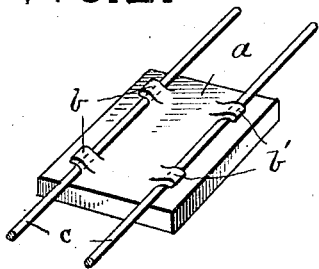


FIG. 3.

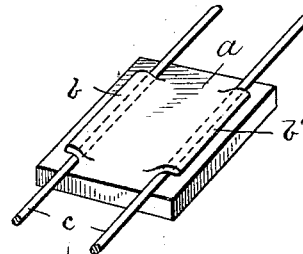


FIG. 4.

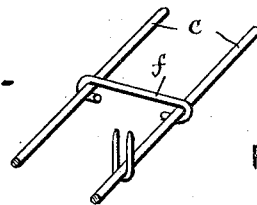


FIG. 7.

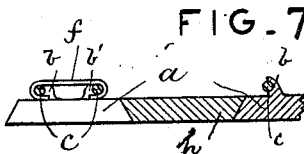


FIG. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

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TILE CEILING, WALL, &c.

SPECIFICATION forming part of Letters Patent No. 648,869, dated May 1, 1900.

Application filed February 5, 1900. Serial No. 4,066. (No model.)

To all whom it may concern:

Be it known that I, THEODORE HORN, a citizen of the United States, residing at Washington, in the District of Columbia, have invented new and useful Improvements in Tile Ceilings, Walls, &c., of which the following is a specification.

This invention relates to certain improvements in the construction of tiles such as are used for ceiling and wall facings and in means for suspending or otherwise securing same to ceiling-joists or to the uprights of partitions, &c.

The means employed for securing my improved tiles to form ceiling and wall facings are clearly illustrated in the accompanying drawings, to which attention is called.

On the drawings, Figure 1 is a perspective view showing the application of my tiles to walls and ceilings. Fig. 2 is a perspective view of my improved tile and its holding-wires. Fig. 3 is a similar view of the tile with different style of hooks. Fig. 4 represents a pair of holding-wires with connecting-clamp and securing-staple. Fig. 5 shows a single wire with a securing-staple and washer. Fig. 6 is an elevation showing the wire confined between the staple and washer thereof; and Fig. 7 is a horizontal view, partly in section, of the invention in modified form.

On the drawings the letter *a* designates my improved tile, the back of which is provided with outwardly-projecting hooks *b b'*, which may be made solid, as shown in Fig. 3, or with spaces between same, as indicated at Figs. 1 and 2. That portion of the tile which projects at the side and ends of the hooks is made smooth or level, the said ends being adapted to rest under the joists or in front of the uprights or studs of partitions.

The wires *c* are intended to be held in position against the joists, studs, or other members of a ceiling, partition, or wall of a building by means of staples *d*, which project through washers *e*, so as to clamp the said wires and hold same in fixed positions, and the hook portions of the tiles are at such elevation as to permit of the ends of the tiles resting under the staples, and thus insure a close joint as well as a uniform smooth surface of tile facing.

To prevent the spreading of the support-

ing-wires after the tiles have been engaged thereby, I employ a series of double-ended wire hooks or clamps *f*, as clearly shown in Figs. 1, 4, 5, and 6.

In applying my tiles to ceilings or walls I first stretch the wires from one side of the room to the opposite side thereof and firmly secure them at suitable distance apart by means of the staples *d* and washers *e* or other suitable fastenings. Beginning at one corner of the room I gently press the wires apart and insert between same a tile, so that when released from pressure the wires will engage the hooks thereof. The clamp *f* is then made to engage the said wires and then slipped under the projecting end of the tile. This process is repeated with each tile until a joist or stud is reached, when the wires are firmly secured thereto by means of a staple *d* and washer *e*. The projection at the ends of the tile is such as to permit of its reaching about half-way across a joist or stud and under the securing-staple and washer. In event of the tile not reaching the center of the material to which the wires are secured the tile following should be cut so that its end shall rest under or in front of the joist or other member of the ceiling or wall. Mortar is applied to the backs of the tiles as they are being placed in position, or a thin mortar may be poured over the backs or behind the tiles and allowed to percolate between the joints, and thus assist the wires in holding the tiles, so that their fronts shall present a uniform and smooth surface.

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

1. The combination in tile ceilings and walls, of a pair of wires and means for holding same in parallel positions, as described, with a tile having oppositely-projecting hooks at its back, the wires adapted to be thrust apart to engage the hooks of the tile, substantially as and for the purpose set forth.

2. In tile ceilings and walls, the combination of a tile provided at its back, with oppositely-projecting hooks, a pair of wires and means for securing said wires in parallel lines to receive the hooks of the tile, with double-ended hooks for engaging the wires, to hold same within the hooks of the tile, substantially as set forth.

3. In tile ceilings and walls, the combination of a series of wires and means for holding same in parallel lines, tiles having oppositely-projecting hooks, at the backs thereof,
5 for engaging the alternate pairs of wires and double-ended hooks for holding the wires within the hooks of the tiles, as described, with a series of tiles adapted to be supported between

the rows of hooked tiles, substantially as set forth. 10

In testimony whereof I have hereunto set my hand this 9th day of January, A. D. 1900.
THEODORE HORN.

Witnesses:

H. N. JENKINS,
E. A. PAUL.