

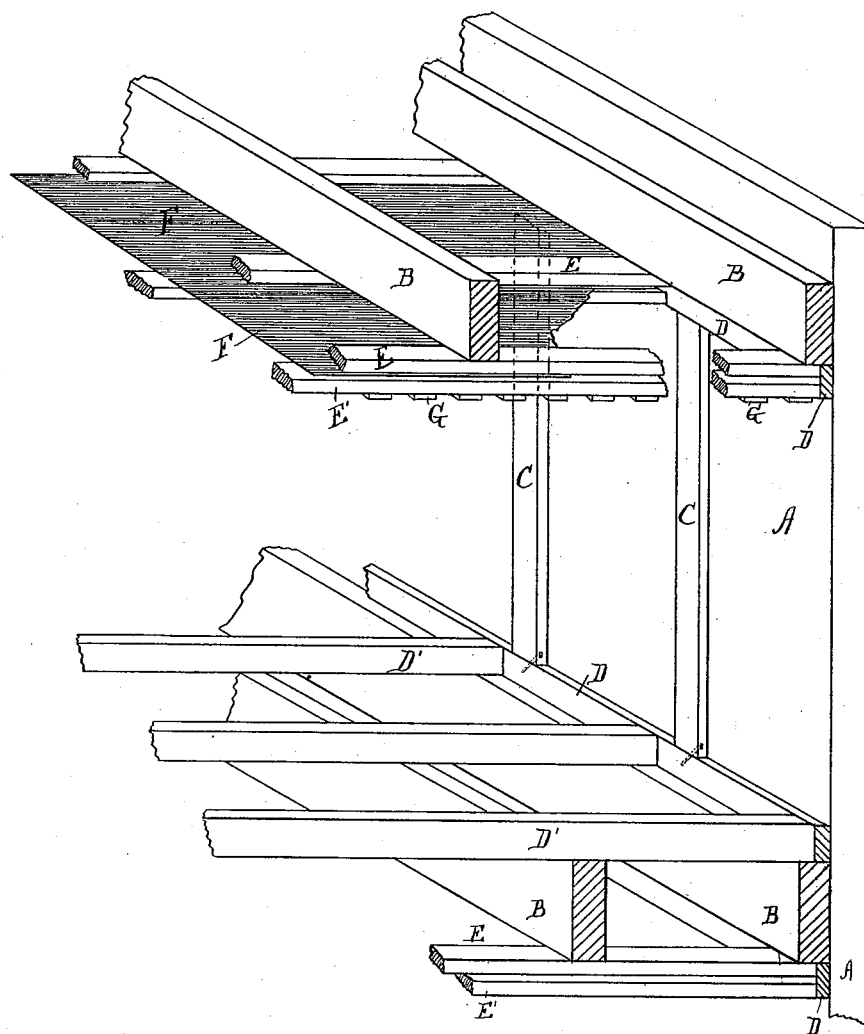
(No Model.)

B. R. HAWLEY.

DWELLING.

No. 261,227.

Patented July 18, 1882.



WITNESSES—
J. Everett Brown
A. M. Munday.

INVENTOR—
Benj. R. Hawley.
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UNITED STATES PATENT OFFICE.

BENJAMIN R. HAWLEY, OF CHICAGO, ILLINOIS, ASSIGNOR TO AGNES
HAWLEY, OF SAME PLACE.

DWELLING.

SPECIFICATION forming part of Letters Patent No. 261,227, dated July 18, 1882.

Application filed February 13, 1882. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN R. HAWLEY, of Chicago, Cook county, State of Illinois, have invented certain new and useful Improvements in Dwellings and other Buildings, of which the following is a specification.

This invention relates to improvements in dwellings and other buildings; and it consists in the novel features hereinafter set forth and explained.

The accompanying drawing gives in perspective a sectional view of a portion of a building to which my present improvements have been applied, and therein A represents one of the walls of the building, and B the joists thereof. C are the furring-strips attached to the wall, to which the lath are nailed. These strips are not continuous, but extend from floor to ceiling only, and at top and bottom rest under and upon the strips D, which are laid above and below the joists, as shown. Said strips D are also employed at the walls which support the ends of the joists, being in such cases laid across the latter, such use being for the same purpose as when laid parallel with the wall-joists; but in all cases where this feature of my invention is used the strips D, or both strips and joists, should be placed close against the wall, so that when the floor is laid, and the ceiling put on communication will be shut off at that point between the different stories and the floor-space be isolated from the wall-spaces. The strips D' are placed across the joists, and upon them the floor is laid in the usual manner. These strips form the channels through which warm air passes under and warms the floor, as disclosed in the patent to me of October 29, 1878. The return-channels under the joints, whereby the air is drawn off after it has been in contact with the floor and given up its heat thereto, are formed by the strips E, nailed to the under side of the joists transversely to the same.

In my present invention I secure to the under side of the strips E widths of building-paper F, laid lengthwise of said strips, and with the joints between the pieces of paper covered and rendered tight by supplemental and par-

allel strips E', similar to the strips E nailed to the latter through the paper. The plastering-lath G may be nailed to the strips E' in the usual manner. The paper forms a continuous and air-tight layer coextensive with the apartment where it is used, and acts in attic stories to prevent the escape of heat in cold and the entrance of heat in warm weather, to prevent the passage of gas, odors, and foul air from lower into upper stories, and to deaden the sound. Another important result of using this paper is to prevent the deposit of dust between the lath, which in time discolors the plastering, making a dark line between each pair of adjacent lath. By using heavy water-proof building-paper, which is also impervious to air, there is no filtration of the air through the ceiling, and hence no dust deposit, thus keeping the plastering uniform in color, as well as retaining the heat and stopping the sound-waves.

In practice it saves much time and labor to lay the strips D before attaching the furring-strips C, and in no case, for the reason already stated, should the latter be laid between the strips D and the wall.

Where my system of floor-warming is not used the strips E may be dispensed with without affecting materially the other benefits accomplished by the invention; but in such cases I recommend the lapping of the sides of paper, so as to make tight joints between them, or that other means to that end be adopted.

I claim—

1. The combination, with the ceiling and joists of a house, of the paper F and the supplemental strips E', secured to the under side of the joists, substantially in the manner and for the purpose set forth.

2. The combination of the furring-strips C, the horizontal strips D and the air-channel-forming strips D' and E with the wall and joists, substantially as set forth.

B. R. HAWLEY.

Witnesses:

H. M. MUNDAY,
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