

J. S. BAILEY.
HOT AIR REGISTER.

Patented Nov. 7, 1882.



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UNITED STATES PATENT OFFICE.

JAMES S. BAILEY, OF BROOKLYN, NEW YORK.

HOT-AIR REGISTER.

SPECIFICATION forming part of Letters Patent No. 267,128, dated November 7, 1882.

Application filed May 16, 1882. (No model.)

To all whom it may concern:

Be it known that I, JAMES S. BAILEY, of Brooklyn, in the county of Kings and State of New York, have invented new and useful Improvements in Hot-Air Registers, of which the following is a specification.

My invention consists of an adjustable supporting-frame for the insulating material commonly arranged as a border to hot-air registers for the protection of the floors from the heat, the said frame being fastened to the floor to support the said insulating-borders, and being adjustable with respect to the height of the floors, in order that when fitting the registers the insulating-borders, which often differ considerably in thickness, may be readily set flush with the upper surface of the floor, whereby the dressing and fitting of the supports that are now often required may be avoided. My adjustable supporting-frames may be made in separate parts, arranged so that the end pieces for a register of a given breadth may be used with the side pieces for registers of the same breadth, but of different lengths, and side pieces for registers of a given length may be used with end pieces of different lengths for registers of different breadths; but the said frames may also be constructed with integral parts.

Figure 1 in the accompanying drawings is a longitudinal section of my improved adjustable supporting-frame for said insulating register-borders, the right-hand side representing the frame of integral parts, and the left-hand side representing the construction in separate parts. Fig. 2 is a plan of the frame as represented in Fig. 1, and Fig. 3 is a side elevation of one of the end bars as separately constructed.

A and A' represent the end bars, and B the side bars, of the frame. C represents the end pieces of the insulating-border. D represents the floor; E, bolts, and F nuts, by which the frame is suspended from the floor, the nuts being set in the position for supporting the border flush with the upper surface of the floor, with packing G between the frame and the floor, against which the frame may be screwed up tightly to prevent the nuts from working loose. The sides B have end projections, H, beyond the end bars, for extending under the floor to receive the bolts. The sides and ends of the frame are arranged with respect to the size of the register and made flat and flush with each other on the upper surface, so that the border-pieces, of soapstone, marble, or other material, will rest on them, while the under sides have strengthening-ribs J. When the side and end bars of the frame are made separately, the side bars will have depressions or recesses K for the end bars to lie in, and said end bars will have stud-pins L, to drop through holes correspondingly arranged for them in the side pieces.

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

The combination, with a hot-air register and stone, marble, tile, or other solid insulating material, of a supporting-frame for the latter, secured to the floor by adjusting devices, enabling said frame to be adjusted for different thicknesses of the insulating material, substantially as described.

JAMES S. BAILEY.

Witnesses:

W. J. MORGAN,
S. H. MORGAN.