

(No Model.)

J. EWIG.

MOISTENING ATTACHMENT FOR HOT AIR REGISTERS

No. 489,296.

Patented Jan. 3, 1893.

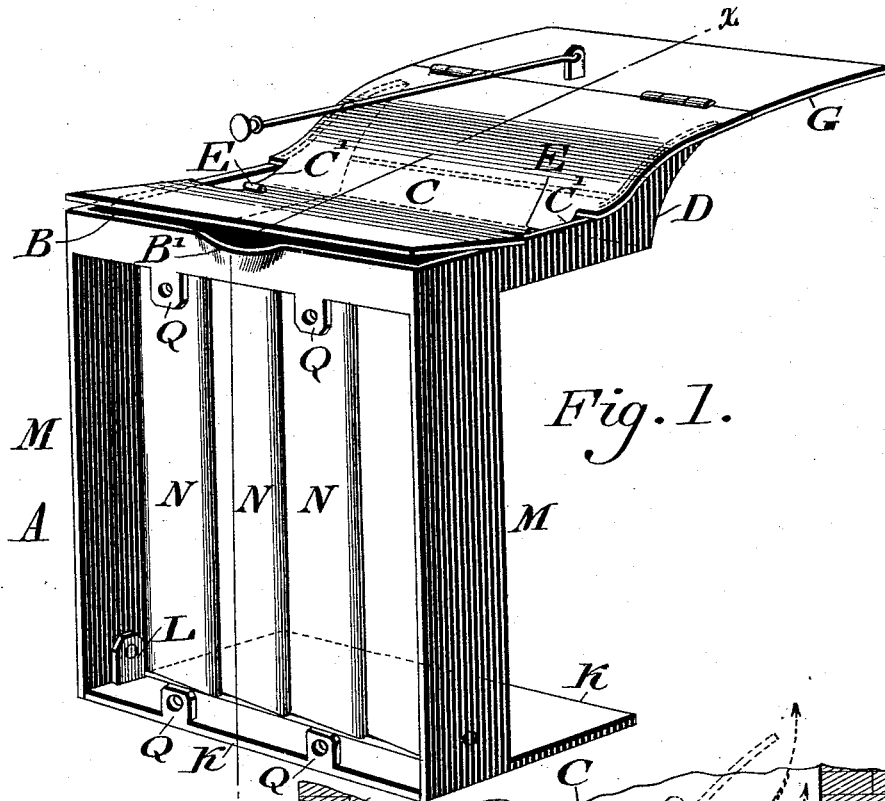


Fig. 1.

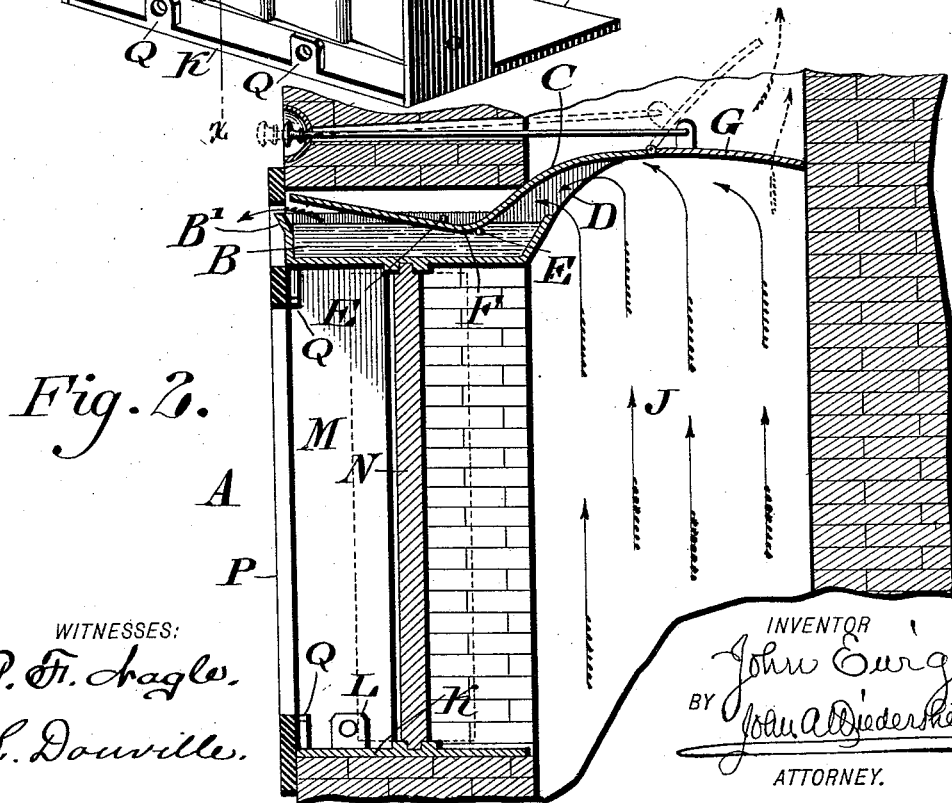


Fig. 2.

WITNESSES:

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MOISTENING ATTACHMENT FOR HOT-AIR REGISTERS.

SPECIFICATION forming part of Letters Patent No. 489,296, dated January 3, 1893.

Application filed August 11, 1892. Serial No. 442,811. (No model.)

To all whom it may concern:

Be it known that I, JOHN EWIG, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Moistening Attachments for Hot-Air Registers, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of an attachment to hot air registers, whereby the air admitted into a room or apartment may be moistened, as will be hereinafter fully set forth and pointed out in the claims.

Figure 1 represents a perspective view of a moistening attachment to a hot air register embodying my invention. Fig. 2 represents a vertical section thereof on line *x, x*, Fig. 1.

Similar letters of reference indicate corresponding parts in the two figures.

Referring to the drawings: A designates the frame of a hot air register, and B designates a tray or pan for water, at the top of the same.

C designates a deflector or deflector plate which partly dips into said pan B, and has its ends raised above the front and rear walls thereof, as most plainly seen in Fig. 2, a portion of the sides of said deflector resting upon the arms D, which extend rearward of the side walls of the pan B. Projecting inwardly from said side walls are pins E, which are adapted to engage with the upper and lower faces of the deflector at or about the depressed or dipping portion F, thereof, thus freely supporting said portion within the pan and also preventing rising of the same.

Hinged to the rear or inner end of the deflector C is a valve G, which has connected with it the sliding rod H, which is guided in the brickwork or masonry of the hot air flue J, and provided with a knob at the other end for conveniently operating said valve, it being noticed that the rear portion of the deflector partly overhangs said flue, and the valve G is a continuation of the same for fully closing or cutting-off said flue when it is desired to prevent the furnishing of heat to an upper register.

The operation is as follows: The heat may pass through the bars of the radiator and be cut-off as usual. Some of the heat strikes the

rear portion of the deflector C, and is directed by the same upon the fluid in the tray B, thus warming or heating the same. The vapor that rises from the fluid is directed by the front portion of the deflector into the apartment and thus moistens the air therein, it being noticed that as the depressed portion F of the deflector dips into the fluid it is sealed, so that escape of the hot air through the pan instead of properly through the register is prevented. When it is desired to admit some of the heat in the flue into an upper apartment or register, the rod H is operated and the valve G accordingly raised and opened, the effect of which is evident, but some of the heat will still be impacted upon the fluid in the pan B, so as to warm the same in order to produce vapor for moistening the air in the apartment containing the register A. When the deflector is properly moved, it may be disconnected from the pins E and thus entirely removed from the pan. The bottom plate K of the frame A is provided with ears L, to which are screwed or riveted the side pieces M of said frame. The bars N of the register are mounted on said bottom plate K and the base plate of the pan B, thus simplifying the construction of the radiator and the moistening device attached thereto. The face plate P of the radiator is screwed or riveted to ears Q on the front wall of the pan and front of the bottom plate K of the frame. The pan is provided with a spout B' for filling purposes, and the sides of the deflector C are cut away as at C' to permit the depressed portion F of said deflector to dip into the pan.

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

1. A moistening attachment for a hot air register having a tray, a deflector partly dipping into said tray and having its ends raised above the front and rear walls thereof, the side walls of the deflector being cut away, said parts being combined substantially as described.

2. A moistening attachment to a hot air register having a deflector which partly dips into a fluid pan and has its ends raised therefrom, said deflector being sustained on the walls of the pan and on pins secured to said walls, substantially as described.

3. A moistening device for a hot air register consisting of a fluid receiving pan, a deflector dipping in said pan and having a rear elevated portion, and a valve at the rear end
5 of said deflector for directing vapor from said fluid, said parts being combined substantially as described.

4. A pan, a flue, and a deflector partly dipping into said pan with its end elevated above
10 the same, the inner end of said deflector extending rearward of the pan so as to overhang the hot air flue, substantially as described.

5. A moistening attachment for a hot air

register consisting of a pan, and a deflector
15 in combination with a valve for the hot air flue connected with said deflector as a continuation thereof, substantially as described.

6. A hot air register having a frame formed
20 of the bottom plate K, the top pan B and side pieces M, the bars of the register being mounted in said bottom plate and the base plate of said pan, substantially as described.

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Witnesses:

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