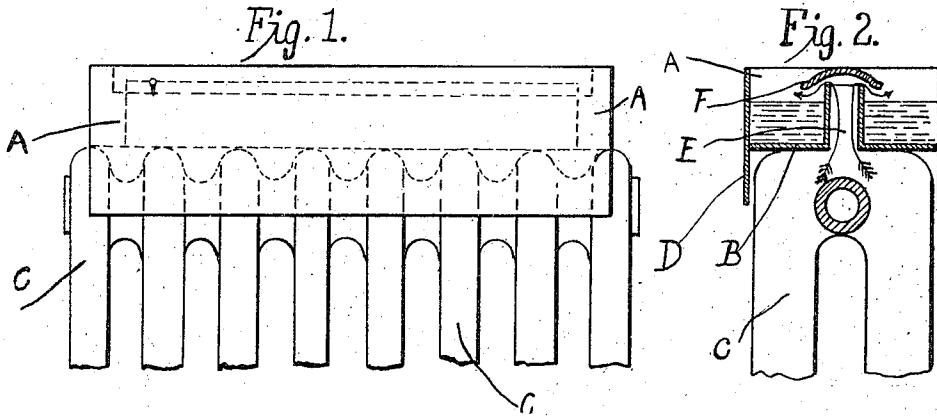


H. R. BEYER.
AIR MOISTENING AND DUST SETTLING DEVICE FOR RADIATORS.
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1,064,598.

Patented June 10, 1913



WITNESSES

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HUGO R. BEYER, OF WILKINSBURG, PENNSYLVANIA.

AIR-MOISTENING AND DUST-SETTLING DEVICE FOR RADIATORS.

1,064,598.

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To all whom it may concern:

Be it known that I, HUGO R. BEYER, a subject of the Emperor of Germany, residing at Wilksburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Air-Moistening and Dust-Settling Devices for Radiators; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in air moistening device and dust settler for use in connection with hot water and steam radiators and comprises a simple and efficient device of this nature so arranged that it may be conveniently placed upon a radiator and the contents of the device heated and moisture given off by the dust which rises with the heated air caused to be deflected into water and settled.

The invention comprises various details of construction and combinations and arrangements of parts which will be hereinafter fully described, shown in the accompanying drawings and then specifically defined in the appended claim.

I illustrate my invention in the accompanying drawings, in which:—

Figure 1 is a side elevation showing my air moistening device as applied to a radiator. Fig. 2 is a cross sectional view through the same. Fig. 3 is a side elevation of a modification of the invention, and Fig. 4 is a transverse section through the modified form.

Reference now being had to the details of the drawings by letter, A designates a receptacle having a bottom B which is adapted to rest upon the top of a radiator C and the side walls of said receptacle have projections D extending below the bottom and adapted to extend down upon opposite sides of the radiator, thus forming a two-fold purpose, namely to deflect the heat up against the bottom and also serve as a means to hold the device securely in place. A deflecting hood F, convexed upon its top, is fitted over said central opening E and a

slight distance above the top thereof and is adapted to cause the heated air and dust carried thereby, which pass up through said opening, to be deflected downward against the surface of the water contained within the receptacle A.

In Figs. 3 and 4 of the drawings, I have shown a slight modification of the invention in which the receptacle K rests upon the radiator C and, instead of having the opposite sides of the receptacle projecting down upon either side of the radiator, a plate O is fastened in any suitable manner to the receptacle and has its upper end O' downwardly curved, serving as a deflecting member to cause the heated air which may rise intermediate the plate and the adjacent wall of the receptacle to be directed down into the water of the receptacle.

By the provision of an air moistening and dust settling device embodying the features of my invention, it will be noted that the heat of the radiator is utilized in heating the water within the receptacle, causing the same to evaporate, while any dust which may be taken up by the hot air and coming in contact with the hood will be deflected into the water, causing the same to settle and the heated air taking up moisture. It has been demonstrated that a larger percentage of evaporation will take place by the construction of my improved air moistening device than with ordinary open receptacles without the features embodied in the present invention.

What I claim to be new is:—

An air moistening and dust settling device for radiators comprising a water containing receptacle adapted to rest upon the radiator, the side walls of said receptacle extending down over the opposite sides of the radiator, the bottom of the receptacle provided with a centrally disposed slot, the walls of which extend upwardly above the bottom, and a concaved deflecting hood over the upper edges and spaced apart from the walls of said slot, as shown and described.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

HUGO R. BEYER.

Witnesses:

THOS. C. THOMSON,
WM. J. SUTER.