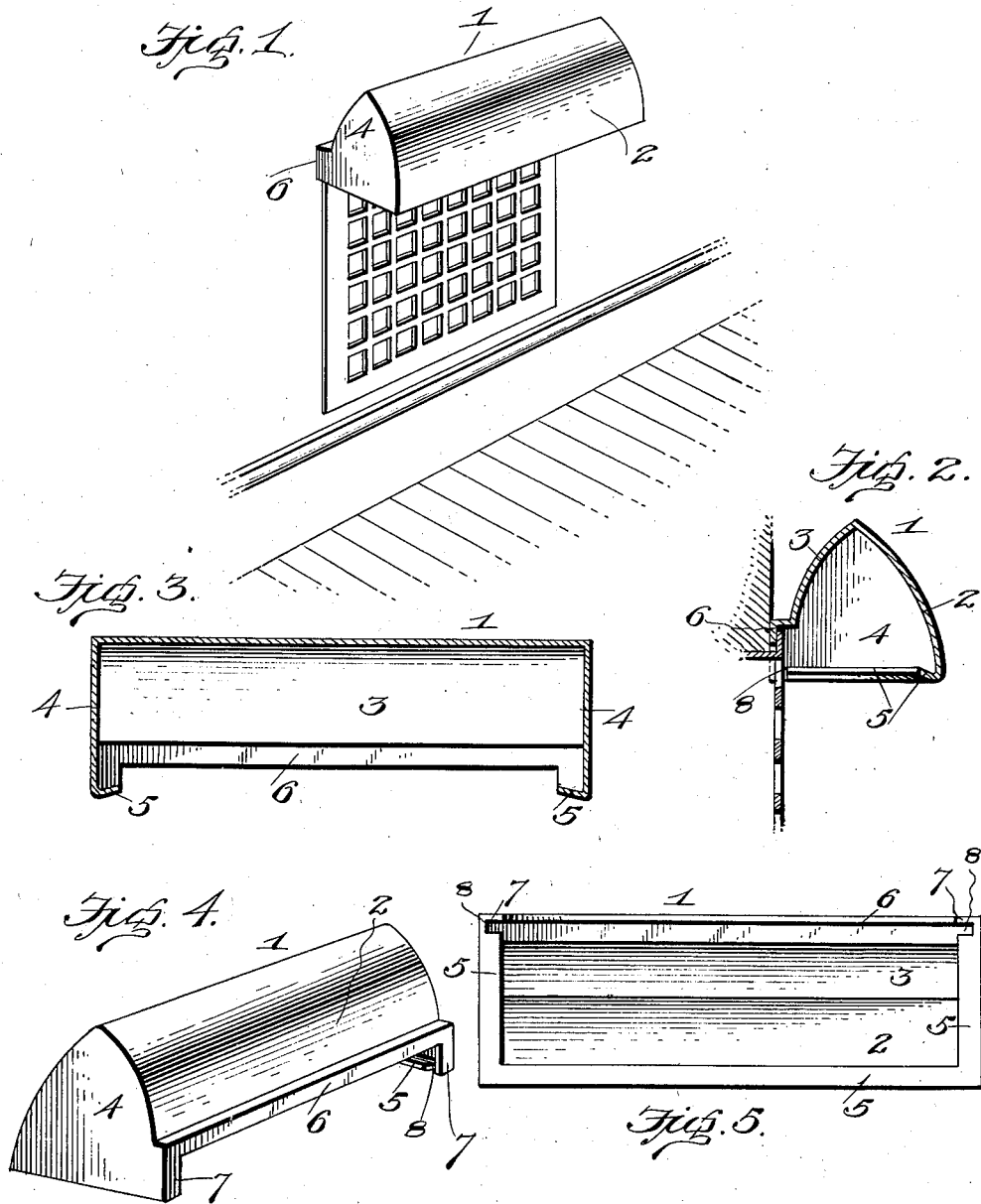


M. A. FORWARD.
HEAT DEFLECTING AND SOOT CATCHING ATTACHMENT FOR HOT AIR REGISTERS.
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1,021,980.

Patented Apr. 2, 1912.



Witnesses
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UNITED STATES PATENT OFFICE.

MARY A. FORWARD, OF ELKHART, INDIANA.

HEAT-DEFLECTING AND SOOT-CATCHING ATTACHMENT FOR HOT-AIR REGISTERS.

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Specification of Letters Patent.

Patented Apr. 2, 1912.

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To all whom it may concern:

Be it known that I, MARY A. FORWARD, a citizen of the United States, residing at Elkhart, in the county of Elkhart and State of Indiana, have invented certain new and useful Improvements in Heat-Deflecting and Soot-Catching Attachments for Hot-Air Registers; and I do 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.

This invention relates to improvements in heat deflecting and soot and dust catching attachments for hot air registers.

One object of the invention is to provide an attachment of this character adapted to be secured in operative engagement with a register without additional or separate fastening devices.

Another object is to provide a heat deflecting attachment of the character described having means whereby the dust and soot entering through the register with the heated air is caught and retained by the attachment and may be readily removed therefrom when desired.

A further object is to provide a heat deflecting and soot and dust catching hood for hot air registers which will be simple, strong, durable and inexpensive in construction, efficient and reliable in operation and which is formed in one piece.

With these and other objects in view the invention consists of certain novel features of construction, and the combination and arrangement of parts as will be more fully described and claimed.

In the accompanying drawings; Figure 1 is a perspective view of a portion of a wall showing a register with my improved deflector applied thereto; Fig. 2 is a vertical cross sectional view thereof; Fig. 3 is a vertical longitudinal section of the same; Fig. 4 is a rear perspective view of the deflector removed from the register; Fig. 5 is a bottom plan view of the same.

My improved heat deflecting and soot and dust catching attachment comprises a hood 1 which is preferably of the shape shown in the drawings and comprises a curved front wall 2, a similarly shaped rear wall 3 and end walls 4. On the lower edges of the front and end walls are formed inwardly extending soot and dust catching flanges 5, said flanges being preferably bent upwardly

to a slight extent to form a channel which receives the soot and dust passing through the register with the heated air and which is caught and deflected downwardly by the hood. The soot and dust thus collected by the flanges or channels 5 may be readily wiped off the flanges or otherwise removed therefrom when desired. The lower portion of the rear wall 3 of the hood terminates some distance above the lower edges of the ends and front wall of the hood and said lower edge of the rear wall is bent rearwardly and then downwardly to form an upper attaching flange 6. The lower portion of the end walls are extended rearwardly to a distance corresponding with the width of the rearwardly bent lower edge of the rear wall and said extended portions of the ends are then bent inwardly to form end attaching flanges 7. The upper attaching flange and the end flanges 7 when thus formed are adapted to be engaged with the upper and side edges of the register and are clamped between said edges and the adjacent portions of the wall by the screws or bolts which fasten the register in place. In order to facilitate the engagement of the end attaching flanges 7 with the side edges of the register, the rear ends of the soot collecting flanges 5 of the end walls 4 terminate a suitable distance from the end attaching flanges to form a space 8 of sufficient width to receive the side edges of the register as will be readily understood. By means of the attaching flanges 6 and 7 it will be seen that the hood or attachment may be quickly and easily applied and secured to a register without the use of separate or additional fastening devices.

It will be noted that the hood is designed to cover only the upper portion of the register and that the same is constructed in such manner that it will not interfere in any way with the free discharge of heated air through the register but will simply deflect or turn the air downwardly as it rises upon passing through the register and prevents the air and the dust and soot carried thereby from coming into direct contact with the side walls or ceiling of the room, thus preventing the soot and dust from accumulating on the wall and ceiling which frequently occurs when the air is permitted to pass directly upward as soon as it comes through the register. It will be further noted that owing to the shape and structure of the at-

tachment that the same will take up very little room and will not readily catch into the clothing or other objects brought into proximity therewith. The extreme simplicity and inexpensiveness of the article as well as the easy manner in which the same may be applied and secured to a register without the use of additional fastening devices should also be considered and will be appreciated by any one having use for an attachment of this character.

From the foregoing description taken in connection with the accompanying drawings the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention as claimed.

Having thus described my invention, what I claim is:

In a heat deflecting and soot catching attachment for hot air registers, a hood comprising front, rear and end walls, said rear

wall terminating short of the end and front walls, an attaching flange formed on the lower edge of the rear wall, similar flanges formed on the rear sides of the lower portions of the end walls, said flanges being adapted to be engaged with the top and side edges of the register whereby the hood is detachably secured thereto, inwardly extending upwardly inclined flanges formed on the lower edges of the front and end walls to provide a soot collecting channel whereby the soot and dust caught by the hood is collected and retained therein, said channel forming flanges on the end walls terminating a suitable distance from the end wall attaching flanges to form spaces to receive the side edges of the register when the hood is applied thereto.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

MARY A. FORWARD.

Witnesses:

VERNE G. CAWLEY,
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