

F. H. GREENAWALT.
HOT AIR REGISTER ATTACHMENT.
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1,113,430.

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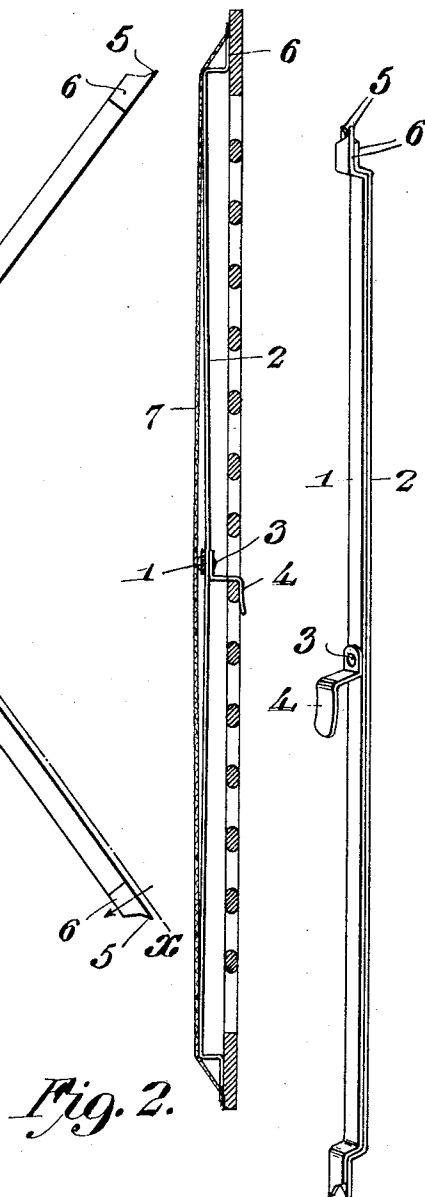
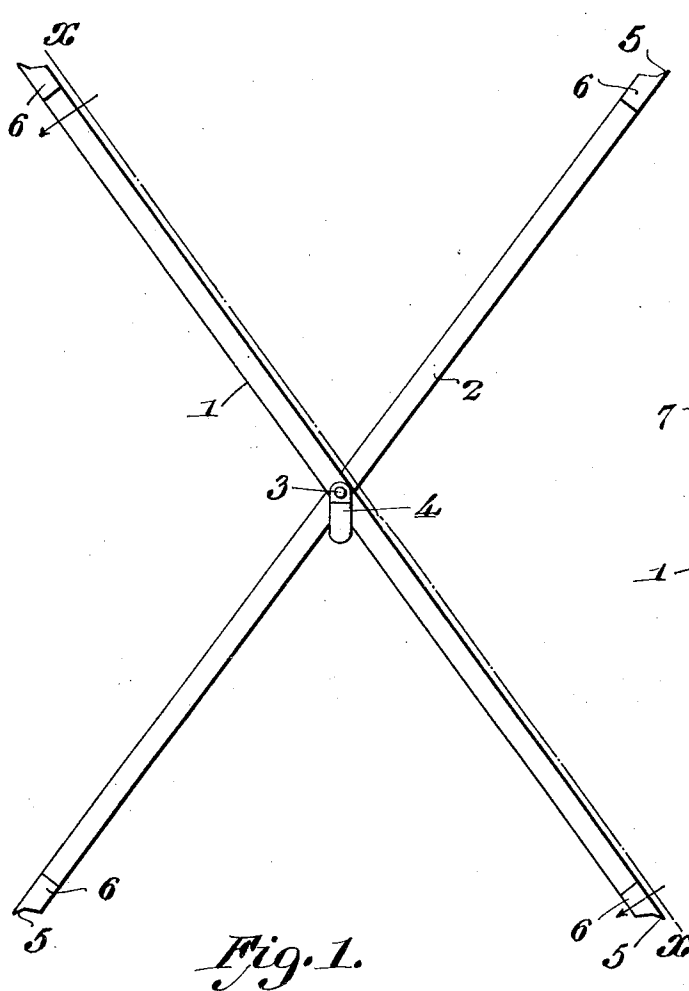


Fig. 3.

WITNESSES:

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HOT-AIR-REGISTER ATTACHMENT.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FRANK H. GREENAWALT, a citizen of the United States, residing at Pittsburgh, county of Allegheny, and State of Pennsylvania, have invented certain new and useful Improvements in Hot-Air-Register Attachments, of which the following is a specification.

My invention relates to attachments for hot air registers and particularly to a dust arrester for hot air registers.

The object of my invention is to provide a device of the class mentioned which may be readily and quickly attached to a register and which will, when in position, efficiently serve to prevent dust, soot or smoke entering the room through the register.

A further object of my invention is to provide a device of the class mentioned which shall be of simple construction and of low cost to manufacture.

A further object of my invention is to provide a device as mentioned which shall occupy but little space when not in use.

Other objects will appear hereinafter.

With these objects in view my invention consists generally in a frame provided at its extremities with means for attaching a cloth or the like thereto and means for attaching said frame to the register.

More particularly my invention consists of a dust arrester comprising a pair of bars pivotally connected at substantially the center, means at the ends of said bars for attaching a cloth thereto and a clasp or spring tongue at the point of intersection of said bars for attaching the device to the register, the pivotal connection of the bars serving to facilitate folding the device when not in use.

My invention further consists in various details of construction and arrangements of parts all as will be more fully described hereinafter and particularly pointed out in the claims.

My invention will be more readily understood by reference to the accompanying drawings forming a part of this specification and in which—

Figure 1 is a rear elevation of a dust arrester embodying my invention in its preferred form, without the cloth attached thereto, Fig. 2 is a section on substantially the line $x-x$ of Fig. 1 illustrating the device applied to the register, and Fig. 3 is a

perspective view of the device in folded position.

The device comprises a pair of similar bars 1 and 2 intersecting at substantially midway their length and connected at the point of intersection by a bolt or rivet 3. Secured to the bars by the rivet 3 is a spring tongue 4 adapted to engage the register for holding the device in position on the same.

The ends of the bars 1 and 2 are provided with means for securing a piece of cheese cloth or similar fabric thereto, and to this end, the ends of the bars are formed with spurs 5 which are sharpened to facilitate placing the fabric thereon. In order to hold the edges of the fabric in close engagement with the edge of the register or adjacent portion of the wall and also to hold the device firmly in position, the ends of the bars 1 and 2 are inwardly offset as at 6, which throws the extreme ends of the bars bearing the points 5 into engagement with the edge of the register or the wall as shown clearly in Fig. 2 of the drawing.

In order that the device may occupy but little room when not in service I prefer to pivotally connect the bars 1 and 2 by the bolt or rivet 3 so that the same may be folded into the position shown in Fig. 3 to facilitate folding the same. The distance between the off-set portion 6 upon one of the bars is slightly less than the distance between the similar off-set portions on the other bar so that one bar may fit within the other, when folded, as shown.

In using the device the frame is extended into the position shown in Fig. 1 and the sheet of fabric 7 secured in position by means of the spurs or pointed ends 5 and the device is then placed in position on the register by inserting the tongue 4 through one of the openings in the register. The off-set portions 6 are of sufficient length to engage the edge of the register or the adjacent portion of the wall and slightly flex the bars so that the device is held firmly in position by the resiliency of the bars 1 and 2.

I claim:

1. A frame comprising a pair of intersecting bars connected at their point of intersection, means on the ends of said bars for attaching a cloth thereto and means at the intersection of said bars for attaching the device to a register.

2. In a device of the class described a pair of intersecting bars connected at their point of intersection, a register engaging tongue secured to said bars, the ends of said bars being off-set on the side with said tongue and said ends being provided with spurs, substantially as described.

3. In a device of the class described a pair of bars pivotally connected at substantially their center, a register engaging tongue se-

cured to said bars, the ends of said bars being off-set and spurs on the ends of said bars, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRANK H. GREENAWALT.

Witnesses:

J. SELIGSOHN,
A. A. MORRIS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."