No. 674,991. Patented May 28, 1901.

O. WILLIAMS.

HEAT DEFLECTOR.

(Application filed Feb. 16, 1901.)

(No Model.)

Fig. 1.

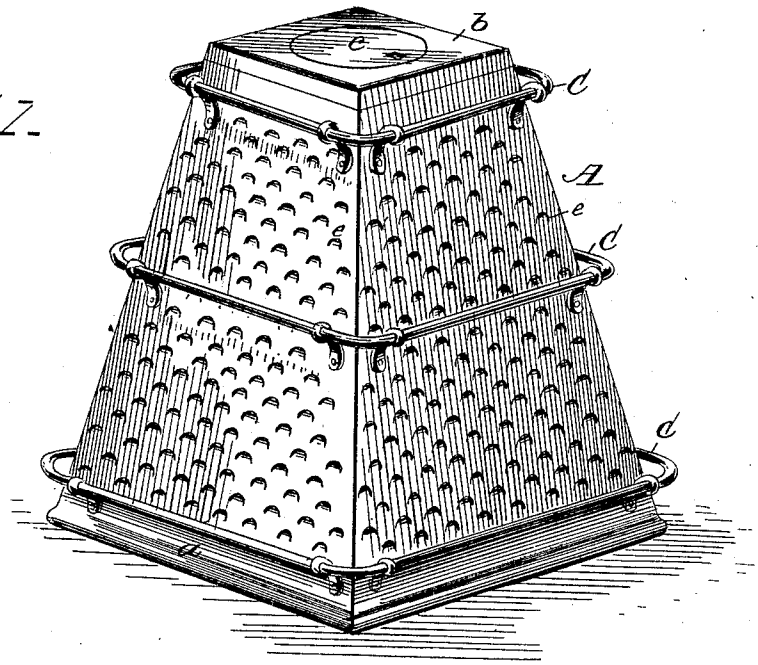
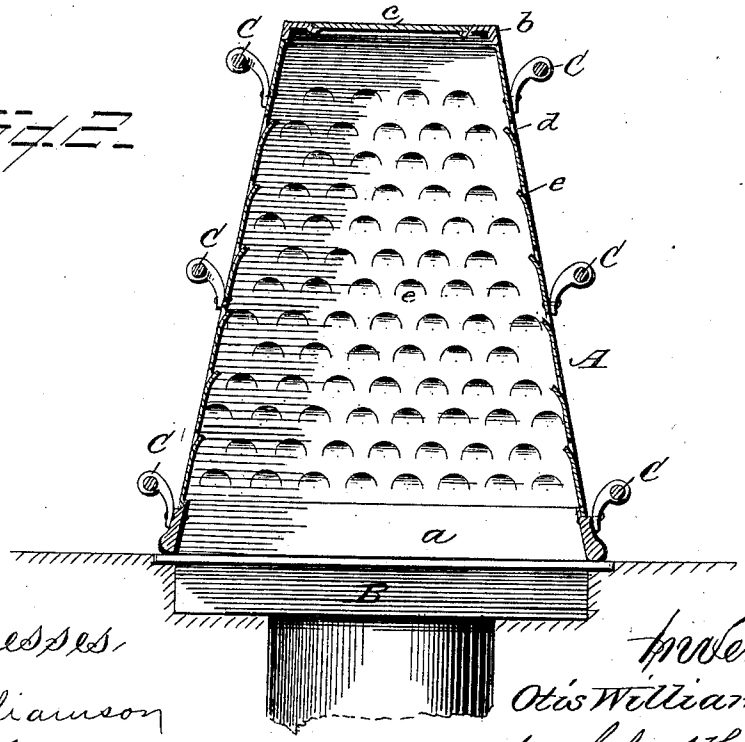


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

OTIS WILLIAMS, OF ST. JOHNSVILLE, NEW YORK.

HEAT-DEFLECTOR.

SPECIFICATION forming part of Letters Patent No. 674,991, dated May 28, 1901.

Application filed February 16, 1901. Serial No. 47,604. (No model.)

To all whom it may concern:

Be it known that I, OTIS WILLIAMS, a citizen of the United States, residing at St. Johnsville, in the county of Montgomery and State of New York, have invented certain new and useful Improvements in Heat-Deflectors; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

The present invention has for its object to provide a simple and effective heat-deflecting device to be used in connection with a hot-air register or pipe to prevent the heat from ascending direct to the top of the room, and thereby heating the room to a better advantage, also providing the deflector with means for heating water, drying or warming clothes or other articles, and providing a foot-rest therefor.

The invention consists in a heat-deflector constructed substantially as shown in the drawings and hereinafter described and claimed.

Figure 1 is a perspective view of a heat-deflector constructed in accordance with my invention; Fig. 2, a sectional elevation thereof, showing its application to a hot-air register or pipe.

In the accompanying drawings, A represents the deflector, comprising a casing, preferably of sheet-iron or other metal, as found best adapted to the purpose, said deflector having tapering or inclined sides with base of increased size, said base having, preferably, a cast-metal support *a*, to which it is connected.

The base of the deflector A is open and sets over a hot-air register or pipe, as indicated at B in Fig. 2 of the drawings, and may be readily removed when desired. The closed top *b* is preferably of cast metal and has a central opening for receiving a suitable lid or cover *c* for the purpose of placing thereon a suitable vessel, such as a kettle or dish, for heating water or for any other purpose desired.

The deflector A is provided with a suitable number of rails C to be used as foot-rests or for hanging clothes thereon or towels or like articles for warming or drying. The rails may be connected to the sides of the casing in any suitable manner, but preferably by means of suitable brackets *f*, riveted or otherwise secured thereto.

The deflector is provided with a number of openings *d* for the escape of the hot air, and each opening is guarded by a deflector-plate *e*, said openings and deflector-plates being of any suitable size and shape, and any suitable number may be used as found most desirable. The heated air as it passes from the register or hot-air pipe and out through the openings *d* is deflected by the plates *e* in a downward direction and prevented from ascending directly to the top of the room, thereby more effectually and uniformly heating the room, as the heated air is prevented from taking a direct upward course by virtue of the deflector-plates. These plates *e* also form guards for the openings *d* and prevent dirt and dust from easily entering through the openings, as the plates extend inward and upward and are upon the inside of the deflector, which is an additional advantage in guarding against persons expectorating in the register or hot-air pipe when the deflector is used in a store or public room.

It is evident that the deflector may be of any suitable shape and size, and many changes or modifications may be made therein without departing from the principle of the invention, and the rails may be of any desirable construction, as found best adapted to the purpose, such modifications or changes in the several details of construction being resorted to without departing from the principle of the invention.

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

1. A hot-air deflector comprising a casing having an open bottom and openings through its sides and deflector-plates over the openings and integral with the sides of the casing, said plates extending upwardly and inwardly beyond the plane of the casing to expose the openings, substantially as and for the purpose set forth.

2. A hot-air deflector comprising a casing having an open bottom, a closed top with central opening and lid or cover therefor, rails connected to the sides of the casing, and openings through the casing and deflector-plates on line therewith, said plates extending upwardly and inwardly, substantially as and for the purpose described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

OTIS WILLIAMS.

Witnesses:
CHARLES EIGENBROADT,
CHARLES MUNK.