

No. 681,552.

Patented Aug. 27, 1901.

M. IVERSEN.

ATTACHMENT FOR HOT AIR REGISTERS.

(Application filed Mar. 11, 1901.)

(No Model.)

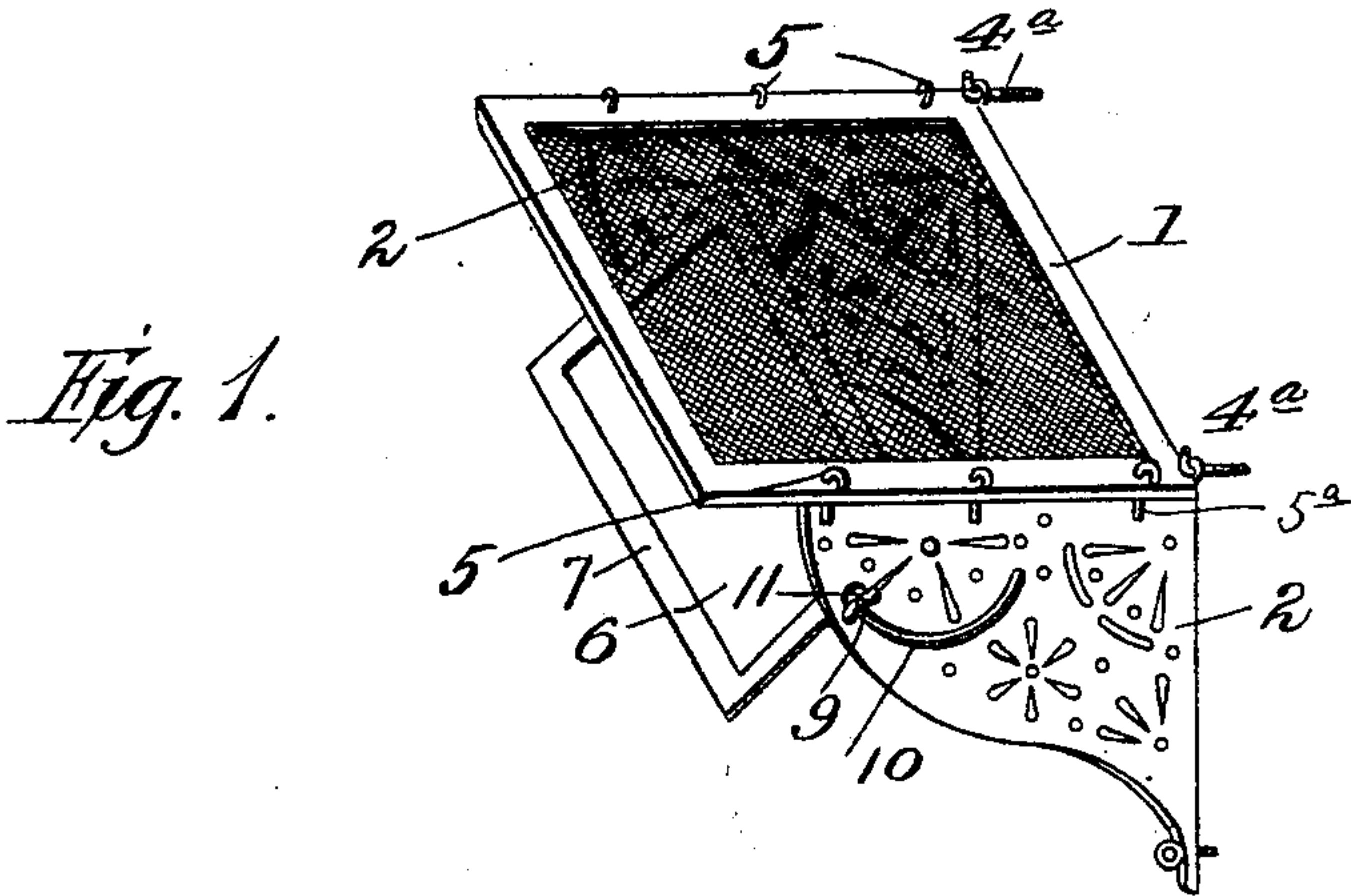


Fig. 2.

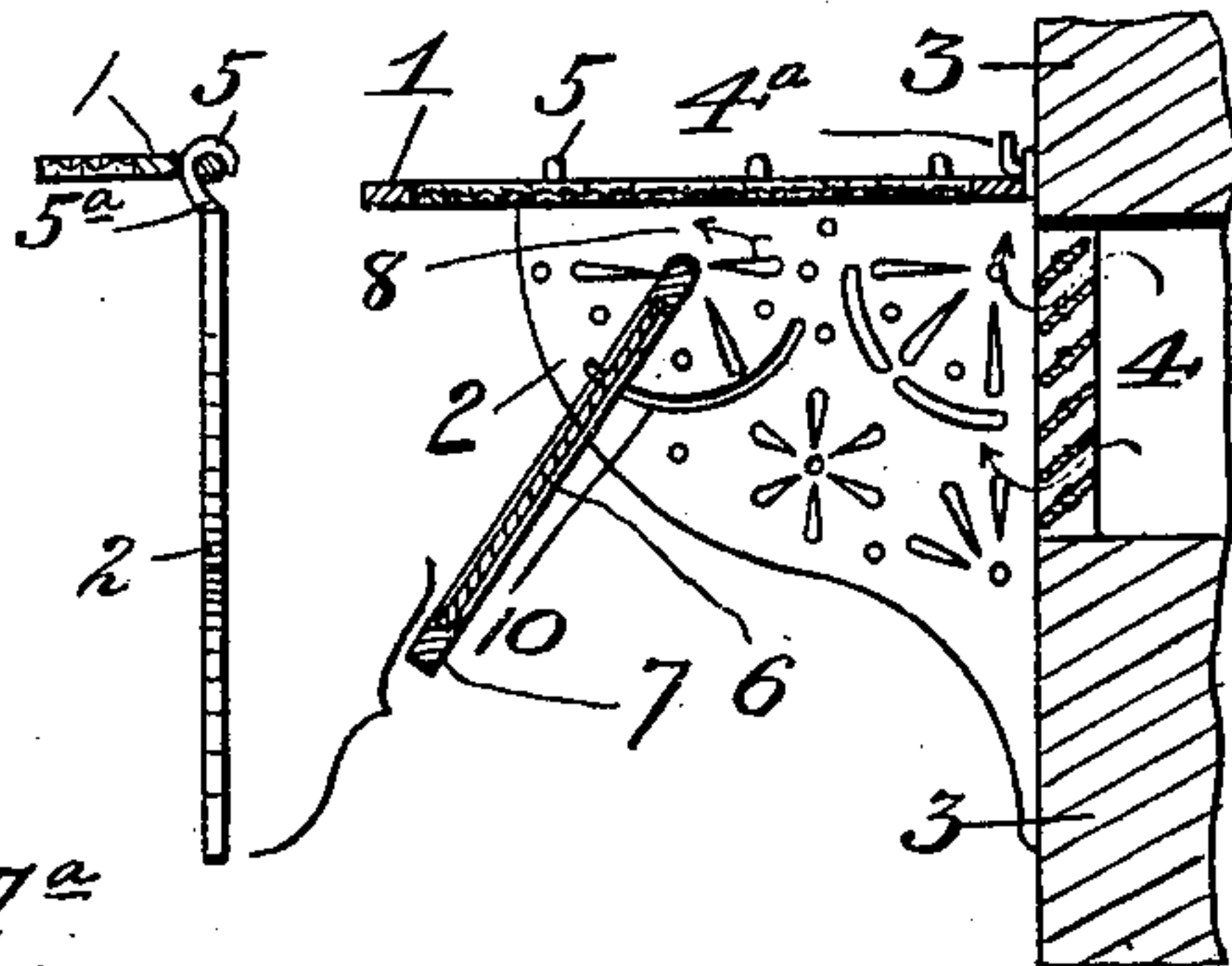
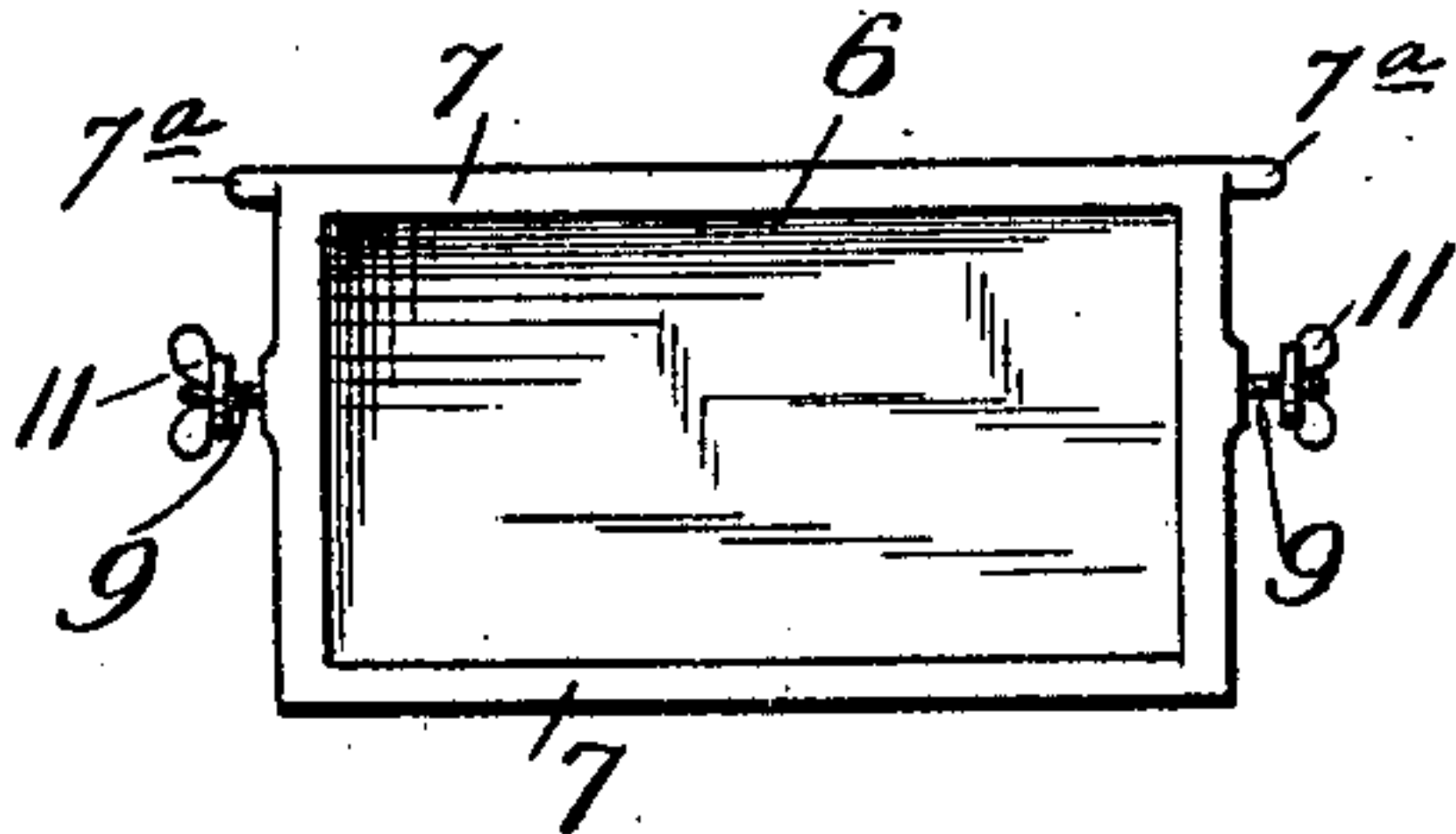


Fig. 3.



Witnesses:
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UNITED STATES PATENT OFFICE.

MICHAEL IVERSEN, OF STOUGHTON, WISCONSIN.

ATTACHMENT FOR HOT-AIR REGISTERS.

SPECIFICATION forming part of Letters Patent No. 681,552, dated August 27, 1901.

Application filed March 11, 1901. Serial No. 50,693. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL IVERSEN, a citizen of the United States, residing at Stoughton, in the county of Dane and State of Wisconsin, have invented new and useful Improvements in Attachments for Hot-Air Registers, of which the following is a specification.

My invention relates to an attachment for hot-air registers; and the object of the same is to construct a device which can be attached to the wall of a room on each side of a register and will deflect the hot air issuing therefrom against a horizontal shelf, and thereby heat anything, such as milk, which has been placed thereon.

With this object in view I have designed the simple and novel construction described in this specification and claimed, and illustrated in the accompanying drawings, forming a part thereof.

Figure 1 is a perspective of my device. Fig. 2 is a plan view of the deflector or valve. Fig. 3 is a transverse section through the register-flue.

Like numerals of reference designate like parts in the different views of the drawings.

The numeral 1 designates a metal shelf which is supported on brackets 2, secured to a wall 3, one on each side of a register 4, by screws 4^a. The shelf 1 is detachably connected to the brackets 2 by hooks 5, the shanks 5^a of which are seated in the brackets, with the hooks engaging the upper edges of the shelf 1. This construction enables the whole to be removed and folded whenever it is so desired, as in removing the device from the room.

An asbestos deflector or valve 6, having a metal binding-frame 7, provided with pintles 7^a, formed integral therewith, is mounted between the brackets 2 and pivoted thereto at points a little below the shelf 1, thus leaving a space 8. The deflector is given a range of movement a little greater than a quadrant. Means for securing the deflector 6 at any intermediate angle is provided in the shape of threaded pins 9, seated in the ends of the frame 7 and engaging circular slots 10, which traverse the brackets, which pins are fitted with thumb-screws 11. The top shelf is best made perforated of an open design, or formed of a grating or wire screen, so as not to obstruct the movement of the hot air.

In operation the food, water, or medicine to be heated is placed on the shelf 1, and the deflector 6 set at the required position. A minimum would be obtained by swinging it up under the top shelf in a horizontal position parallel to the shelf 1. The heated air rising from the register would encounter the deflector 6 and be deflected.

Although I mention asbestos as the material of which my deflector 6 is constructed, any suitable non-conducting material may be employed.

From the foregoing it will be seen that my heater is adapted to be used in bedrooms or nurseries or sick-rooms and is compact and easily taken down and packed away when not desired.

I do not wish to be limited as to details of construction, as these may be modified in many particulars without departing from the spirit of my invention.

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

1. In combination with a hot-air register located in a wall, of brackets secured to the wall on the sides of the said register, a shelf supported by said brackets, and a deflector pivoted to said brackets at points near said shelf, said deflector being constructed to be swung back so that its lower edge will contact with the said wall below the said register, substantially as described.

2. In combination with a hot-air register located in a wall, of brackets secured to the wall on the sides of said register, a shelf supported on said brackets, a deflector pivoted to said brackets at points near said shelf, said deflector being constructed to be swung back so that its lower edge would contact with the said wall below said register, and means for adjusting and holding said deflector at intermediate positions to regulate the amount of cold air mixing with the hot air, substantially as described.

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

MICHAEL IVERSEN.

Witnesses:

O. O. MELAAS,
J. J. NAUT.