

(No Model.)

J. G. W. F. FLEEMING.
STOVE HOOD OR HEAT COLLECTOR.

No. 336,559.

Patented Feb. 23, 1886.

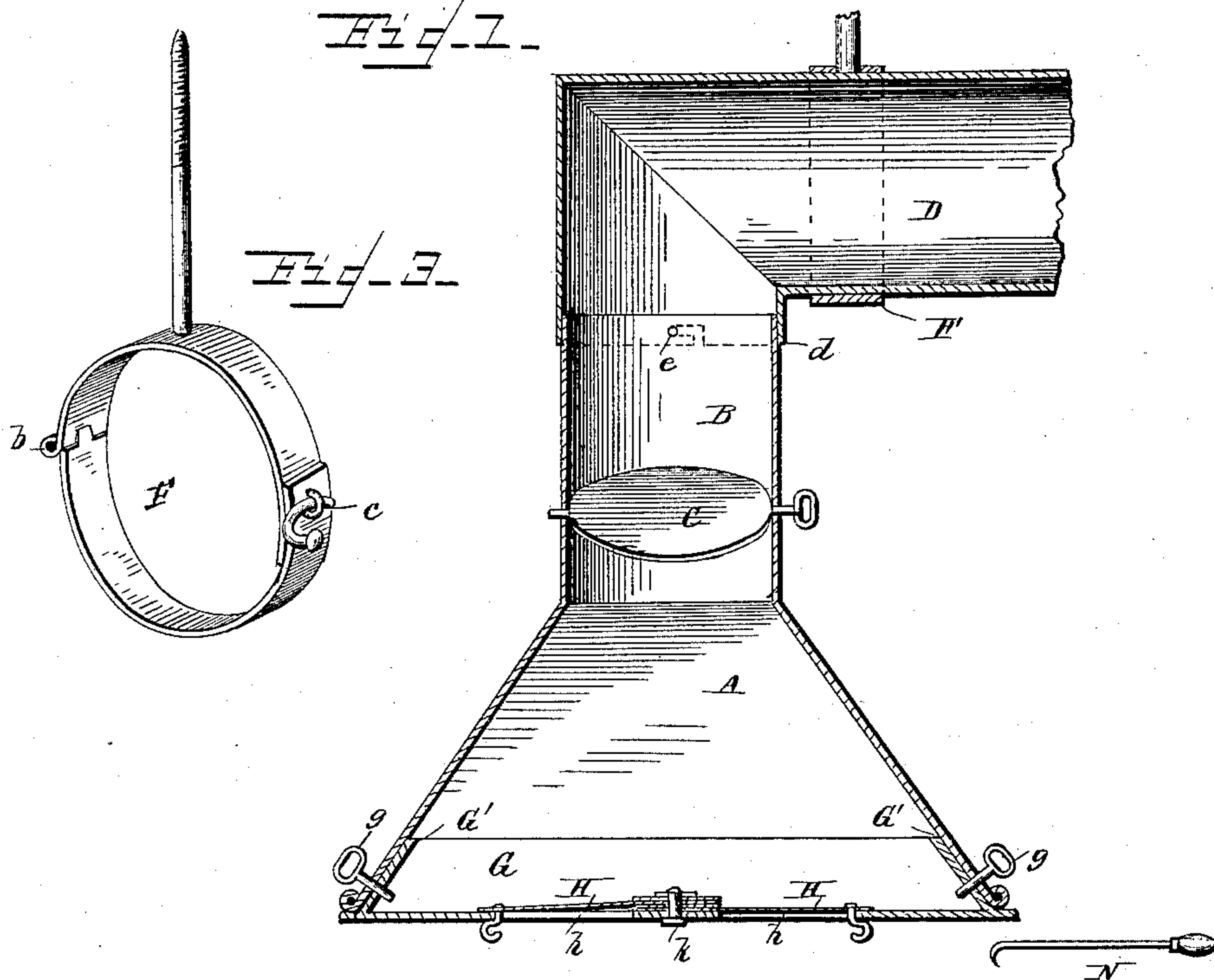


Fig. 2.

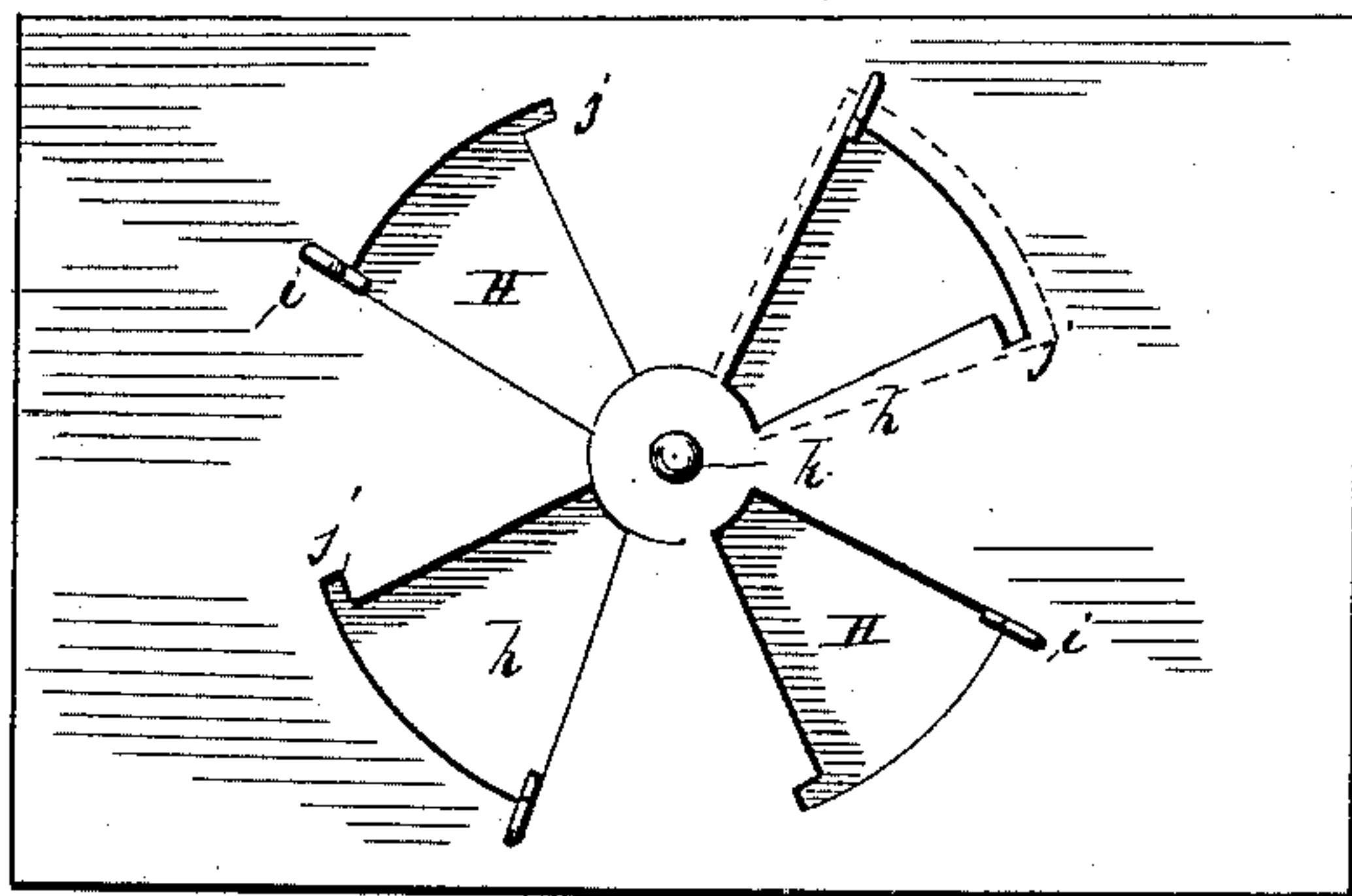
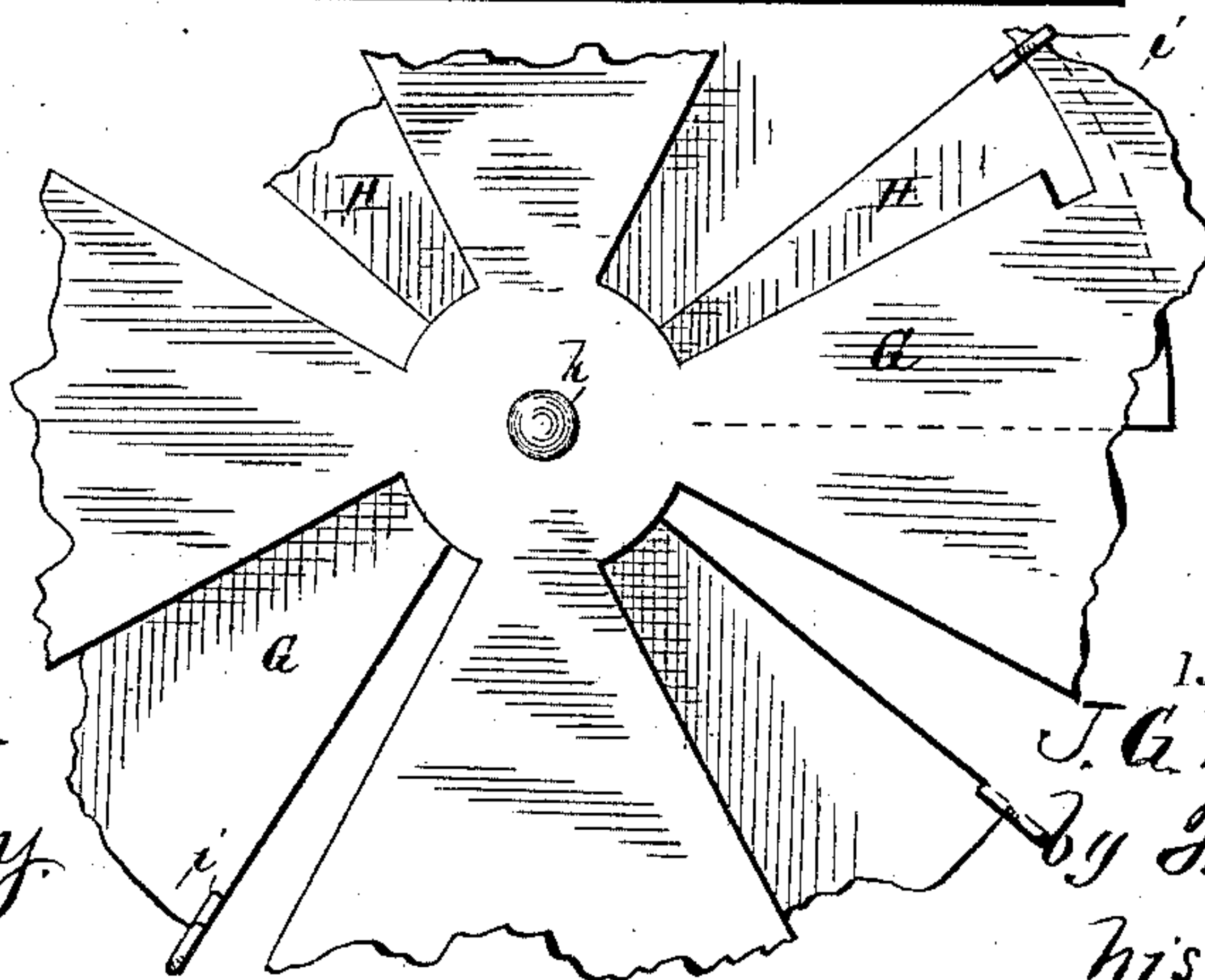


Fig. 4.



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JOHN G. W. F. FLEEMING, OF EMERSON, IOWA.

STOVE-HOOD OR HEAT-COLLECTOR.

SPECIFICATION forming part of Letters Patent No. 336,559, dated February 23, 1886.

Application filed February 6, 1885. Serial No. 155,156. (No model.)

To all whom it may concern:

Be it known that I, JOHN G. W. F. FLEEMING, a citizen of the United States, residing at Emerson, in the county of Mills and State of Iowa, have invented a new and useful Stove-Hood or Machine for Collecting and Transmitting Surplus Heat from Stoves and Ranges, of which the following is a specification, to wit:

My invention relates to certain novel improvements which are applicable to hoods that are arranged over stoves, ranges, and other cooking apparatuses, and designed for conducting off the vapors, smoke, &c., rising from the heater itself or from articles during the process of cooking, and discharging the same into a flue or uptake; and my invention consists in the novel devices, which will be fully understood from the following description, when taken in connection with the annexed drawings, in which—

Figure 1 is a vertical central section through my improved hood and heat-collector suspended by a collar, and showing a hand-hook for adjusting the register-valves in the removable bottom G. Fig. 2 is a bottom view of the device. Fig. 3 is a perspective view of the hanger; and Fig. 4 is an enlarged detail in section, showing the several register-valves.

A designates the hood proper, which is preferably the frustum of a pyramid, and made of any suitable capacity adapted to collect heat or vapors, &c., rising from a stove or range or other heater over which it is arranged. From the top of this hood rises a flue or pipe, B, rigidly secured to it, and provided with a regulating damper or valve, C.

D designates an elbow-pipe section, which may be connected to the upper end of the pipe B by means of pins *e* and bayonet-slots *d*, or by any other suitable means which will allow a ready detachment of said parts when desired.

F designates a suspension-band for the device, which band is composed of two semi-circular parts, connected by a hinge at *b* and by a hook-and-eye fastening, *c*. This band is designed to clasp the horizontal part of the said elbow D, and, by means of a screw or spike inserted into a ceiling, to sustain the hood in proper position over a stove, range, or other heater.

G designates the bottom for the hood A, which is adapted to fit snugly the lower end of this hood, as shown in Fig. 1, and to be removably secured to it by means of pins *g*.

This hood-bottom G is constructed with beveled or upwardly-converging flanges *G'*, which afford close contact-bearings for the said bottom against the inclined sides of the hood, and also receive the inner ends of the removable connecting-pins *g*, above referred to. The bottom plate, G, is constructed with outwardly-flaring draft-passages *h*, which radiate from a common central pivot, *k*, as shown in Figs. 1 and 4, and from an outer angle of each draft-passage *h* is an offset, *j*, for a purpose hereinafter explained. These passages *h* are what are known as "register-holes;" but, instead of using a single circularly-movable register plate, I employ, say, three independently-movable register-segments which are movable about the said common pivot, *k*. It will thus be seen that I am able to adjust each register-plate independently of the others, and for this reason I can direct the rising vapors or heated air through any one or more of the draft-passages *h*. Each one of the said register segments or valves H is provided with a hook, *i*, adapted to receive, for convenience, a hand-hook, N, (shown in Fig. 1,) by means of which the valves can be adjusted. The necks or stems of the hooks *i* are received in the short offsets *j*, when their valves are fully open.

It is obvious from the above description that the bottom or removable portion, G, of the hood A serves the purpose of a heat-deflector, which will radiate into the room a large amount of heat. In the summer season this deflector may be removed to allow the heat to freely escape through the hood and flues, or at any time, when the said deflecting-bottom is attached to the hood, the exit of the heated air can be nicely regulated by adjusting the valve-segments H and the valve C in the pipe B.

Having described my invention, I claim—

1. The combination, with a stove-hood, of a removable bottom provided with openings and independent valves for closing the same, substantially as specified.

2. The combination, with a stove-hood, of a bottom provided with openings and independent valves for closing the same, substantially as specified.

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Witnesses:

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