

J. N. TODD.
STOVE-HOODS.

No. 187,199.

Patented Feb. 6, 1877.

Fig. 1.

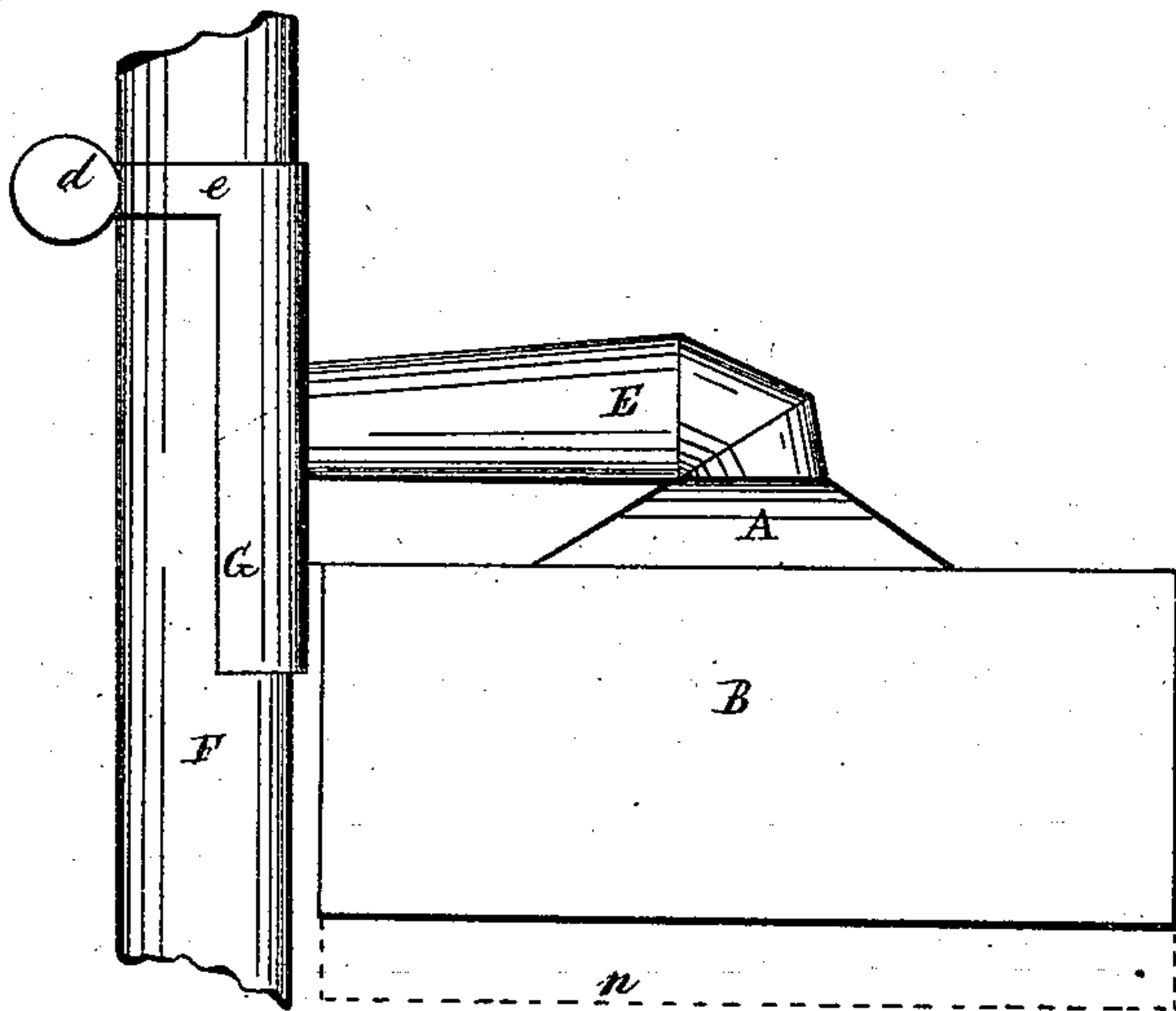


Fig. 2.

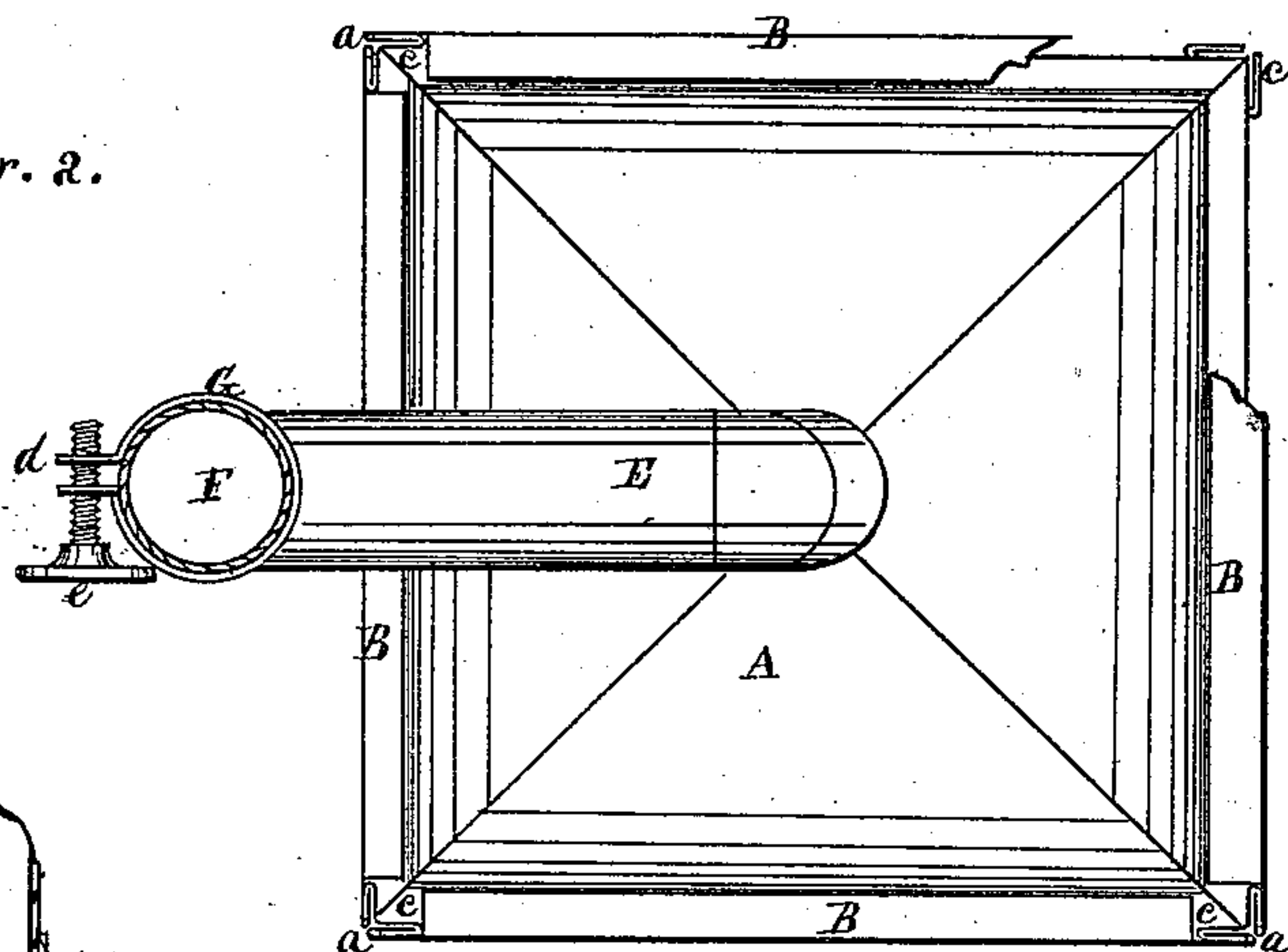


Fig. 3.

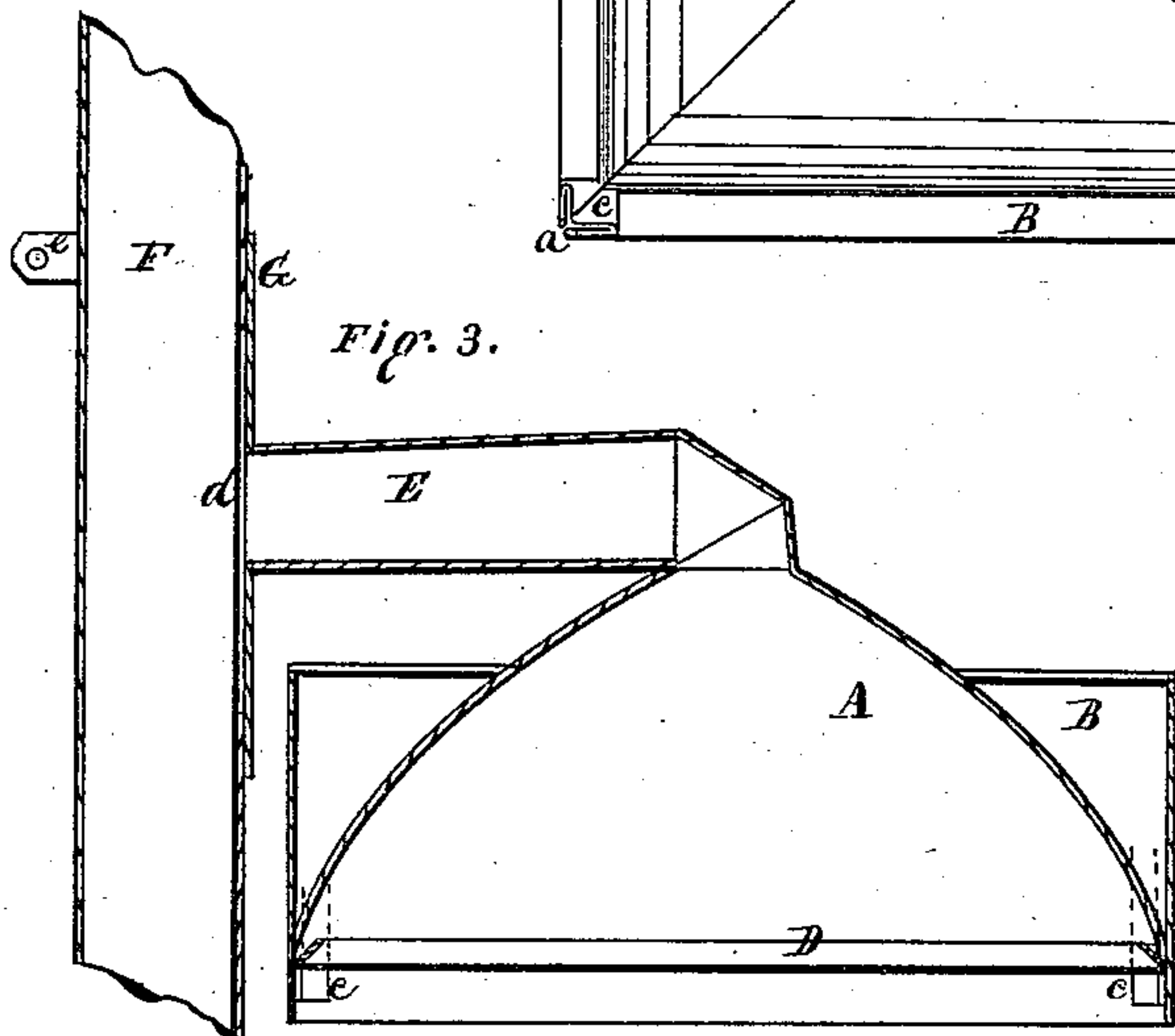
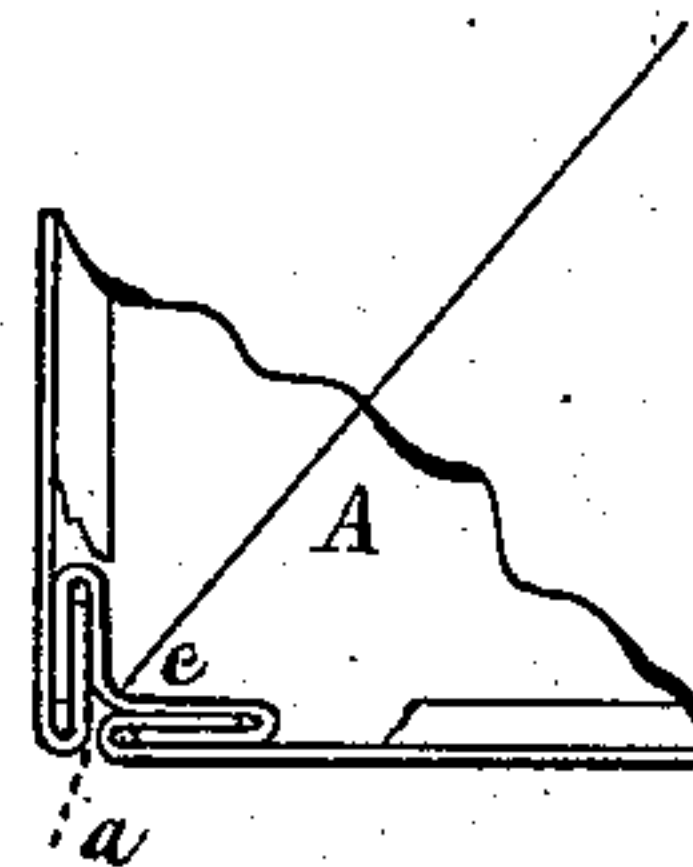


Fig. 4.



Witnesses.
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IMPROVEMENT IN STOVE-HOODS.

Specification forming part of Letters Patent No. **187,199**, dated February 6, 1877 ; application filed October 12, 1876.

To all whom it may concern :

Be it known that I, JOHN N. TODD, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented new and useful Improvements in Stove-Conductors for Vapors, Gas, &c., of which the following is a description, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side-view of the conductor attached to a section of stove-pipe. Fig. 2 is a plan view of Fig. 1. Fig. 3 is a transverse section. Fig. 4 is a detached section.

The nature of this invention relates to a certain device to be attached to a stove, and the object of which is to provide an avenue of escape for the smoke, gas, and steam that may arise from the stove during the time of cooking and washing, thereby preventing the smoke, &c., from filling the room.

The construction of the aforesaid conductor, and the application of the same to a stove, are substantially as follows: The conductor alluded to consists of a rectangular sheet-metal hood A, Fig. 2. The dimension of said hood is such as to cover the top of a stove, or so much thereof as may be used for cooking. On each side of the hood is attached a slide, B, as follows: To each corner of the hood is secured an angle iron or piece, *c*, Fig. 2, an enlarged view of which is shown in Fig. 4, in which it will be seen that the sides of the angle or piece *c* are bent and doubled back, forming a groove on each side of the corner of the hood. Each end of the slide is bent back upon itself, forming a tongue, as will be seen at *a*. Said tongue is inserted in the groove of the corner-piece *c*, and is free to move therein for raising and lowering the slides. The attachment of the slides to the hood will be fully understood on examination of the drawings. The edge of each side of the hood is turned inward and upward, forming a gutter or conduit around on the inside of the hood, as will be seen at D in Fig. 3. The gutters are connected to each other, and have an outlet at one corner of the hood. The object of said conduit will presently be shown. In the apex of the

hood is an opening, in which is attached a pipe, E, leading therefrom to the stove-pipe F, into which it opens, and which is attached to said stove-pipe by means of a sliding clamp, consisting of a semicircular apron, G, secured to the pipe E. Said apron fits closely to the pipe, and is made fast thereto by a screw, *e*. The purpose of the apron G is not only to attach the pipe E to the stove-pipe, but also covers an elongated hole in the stove-pipe, as will be seen in Fig. 3, in which *d* shows the elongated hole alluded to, and G the apron.

As aforesaid, this invention is for the purpose of conducting away the smoke, gas, and steam that may arise from a stove while the cooking or the washing is in progress, and thereby prevent the escape of the smoke, &c., into the room. To this end the conductor is placed over the stove, and above it at a convenient height, so that access may be had to the utensils upon the stove. The position of the conductor when thus over the stove is as shown in Fig. 1, in which it will be seen that it is supported in position by being attached to the stove-pipe, in the way as above described.

The hood can be adjusted as to height by pushing it upward or downward within range of the slotted opening *d* alluded to. It will be obvious that when the hood is thus secured above the stove, the smoke, &c., that may arise therefrom will pass up into the hood, thence into the stove-pipe, so that but little, if any, will escape into the room. The steam, &c., that may condense on the inner side of the hood will flow down into the gutters D, above described, and may be conducted therefrom by a pipe into a vessel placed on or back of the stove, out of the way.

The purpose of the slides B is to cover more completely the utensils on the stove. To this end they are pulled down as indicated by the dotted line *n*, Fig. 1. The slides may be so far down as to reach the top of the stove, and entirely inclose the utensils thereon; or, as will be obvious, they can be pushed up above the edge of the hood, out of the way. As aforesaid, in consequence of the elongated

hole in the stove-pipe, the hood can be elevated to a considerable height above the stove, so that it may be up out of the way.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The hood A, having conduits or gutters D around the inner side thereof, pipe E, and adjustable apron G, in combination with the pipe F, substantially as and for the purpose set forth.

2. The slides B, attached to and in combination with the hood A, in the manner as described, and for the purpose specified.

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Witnesses:

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