

(No Model.)

A. GUSDORF.
CHIMNEY.

No. 442,179.

Patented Dec. 9, 1890.

Fig. 1.

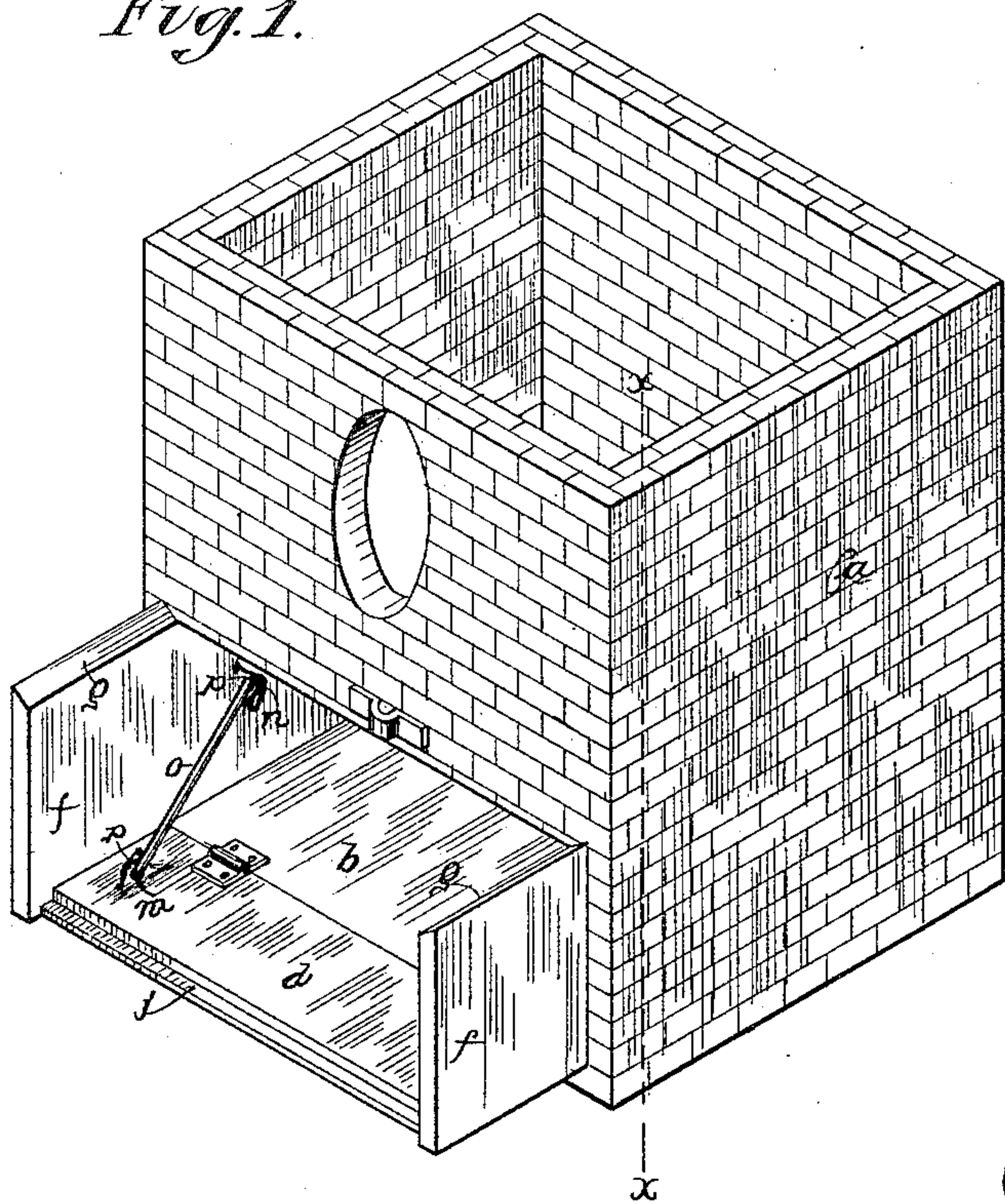


Fig. 2.

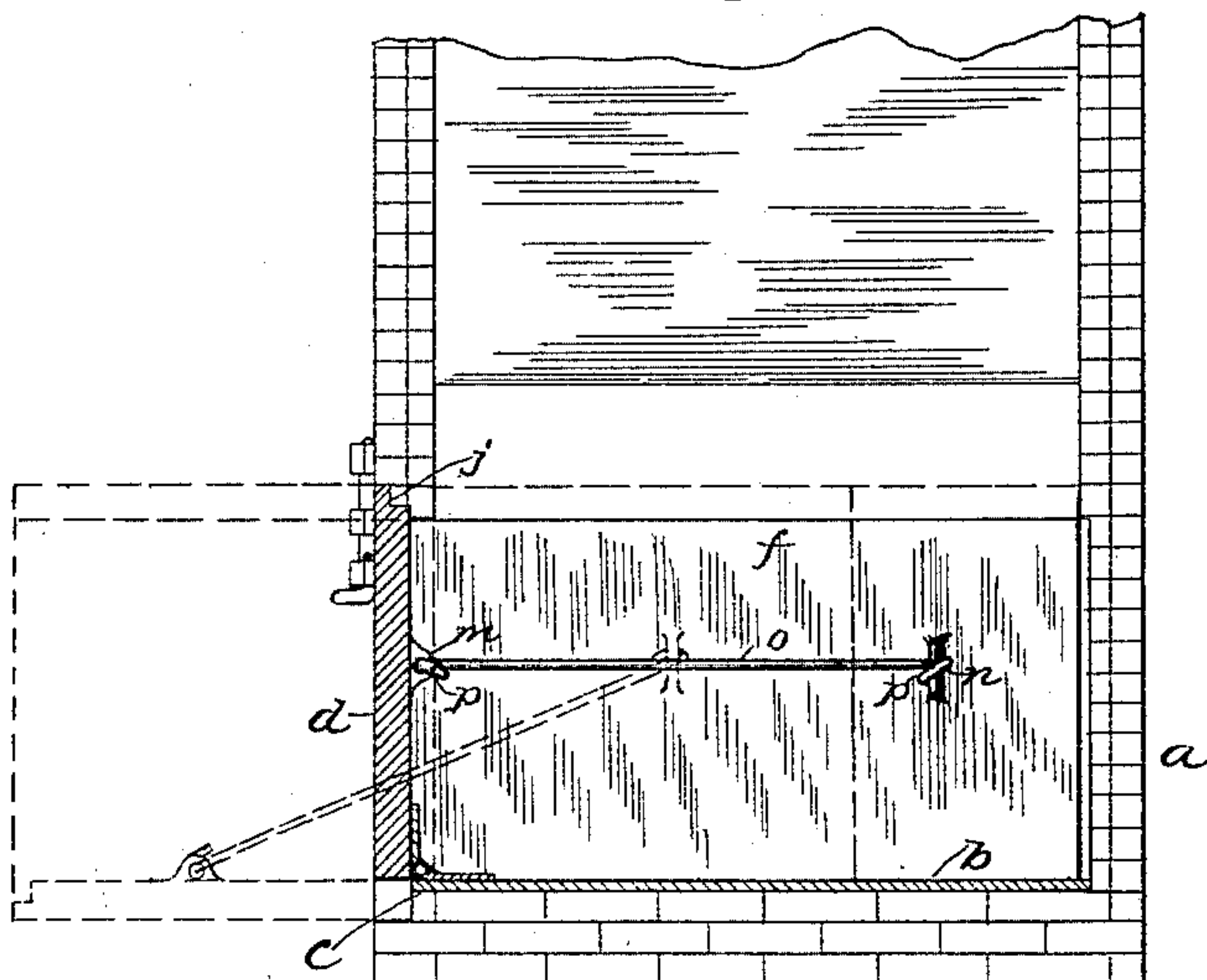
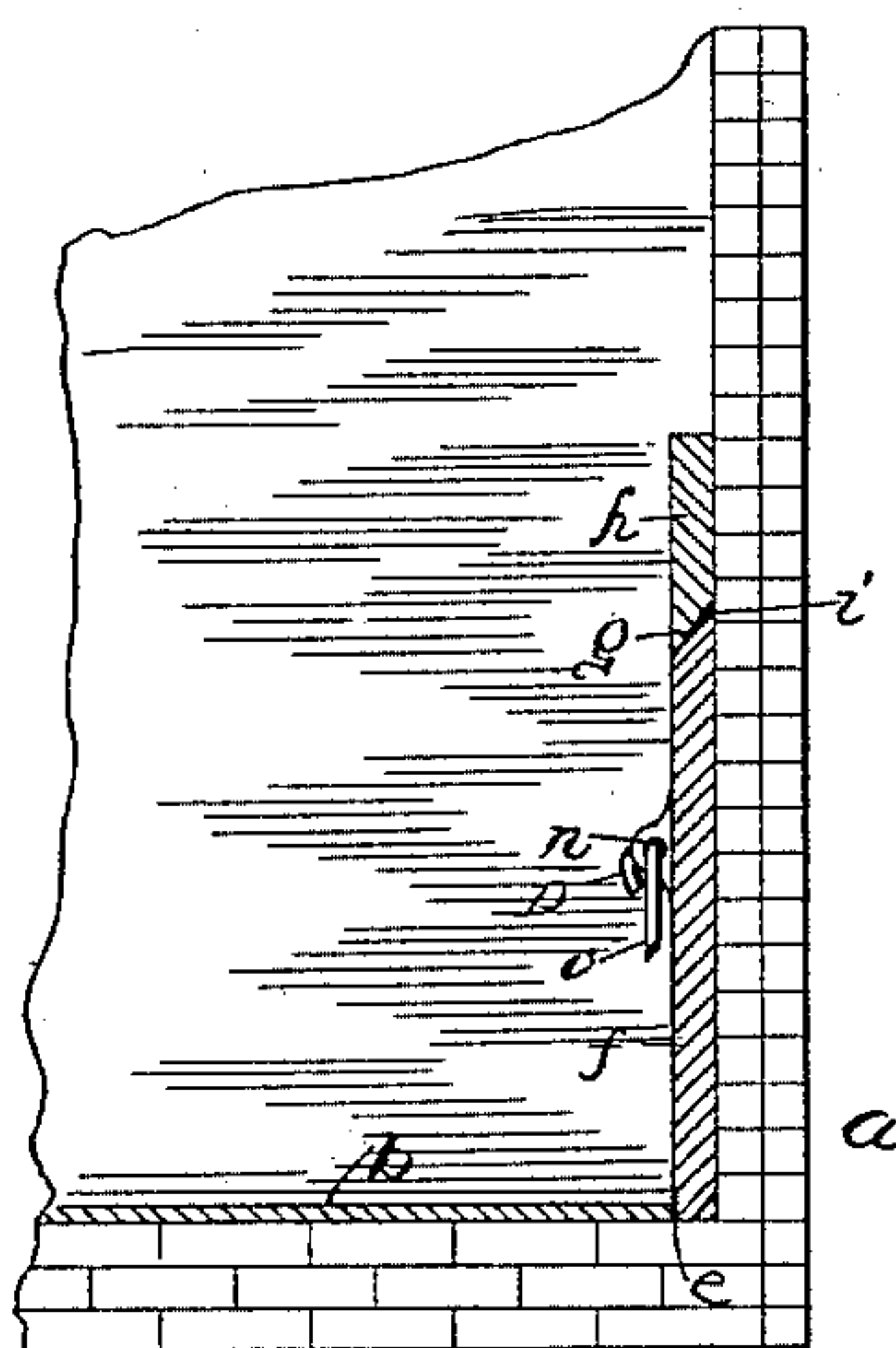


Fig. 3.



Witnesses

R. W. Davis
G. P. Davis

Alex. Gusdorf
Inventor
by Charles Wm. King,
Attorneys.

UNITED STATES PATENT OFFICE.

ALEXANDER GUSDORF, OF RANCHES OF TAOS, TERRITORY OF NEW MEXICO.

CHIMNEY.

SPECIFICATION forming part of Letters Patent No. 442,179, dated December 9, 1890.

Application filed August 13, 1890. Serial No. 361,852. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER GUSDORF, a citizen of the United States of America, residing at Ranches of Taos, in the county of Taos and Territory of New Mexico, have invented certain new and useful Improvements in Chimneys, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to chimneys, but more particularly to an arrangement for facilitating the removal of soot, ashes, and other matter from the bottom of the chimney; and it is intended as an improvement upon the invention disclosed in my prior patent, No. 426,532.

The object sought to be accomplished is to produce a more simple, cheap, and efficient construction; and with this end in view my invention consists in certain novel features and combinations of parts, more fully described hereinafter, and pointed out in the claims.

Referring to the accompanying drawings, Figure 1 is a perspective view of my complete arrangement, showing the door open; Fig. 2, a central section representing the door closed, dotted lines indicating the parts in open position; and Fig. 3, a cross-section of a portion of the device, taken on line *x x* of Fig. 1.

The reference-letter *a* indicates the chimney proper, and *b* the bottom of the same, which may consist of masonry, like the remainder of the chimney, or of a metallic plate, as represented in the drawings. This plate *b* does not extend quite to the front of the chimney, but an offset *c* is left, and the door *d* is hinged to the front edge of the plate, and thus when let down fits said offset against the shoulder of the same, thus lying flush with the base-plate, as seen more clearly in Fig. 2. Grooves *e* are left between the side edges of the base-plate and the sides of the chimney, and in these grooves fit the side slides *f*, which bear closely against the sides of the chimney and are provided with beveled upper edges *g*. Strips *h*, having corresponding beveled lower edges *i*, are secured to the chimney-sides, and the upper edges of the slides fit the V-shaped grooves made by the lower edges of the strips and the side walls of the chimney.

When the side slides *f* are slid back to their farthest extent, their outer ends will come flush with the outside of the front chimney-wall and their inside faces will bear against the opposite ends of the door and inclose the latter, the front of said door also coming flush with the chimney, being provided with a suitable rabbet *j* for this purpose. Thus the parts in closed position maintain a compact adjustment and a neat appearance.

At each end of the hinged door *d*, on the inside face of the same, is formed an eye *m*, and about the center of the adjacent face of each side slide is formed a similar eye *n*, and the door and slides are connected by means of rods *o*, having hooked ends *p* engaging said eyes, respectively. As these rods are rigid, it will be readily seen that when the door is let down it will draw forward with it the slides, and as the door has the same height as these slides its upper edge will come flush with the ends of the same when the parts are brought to the extended position shown in Fig. 1, and thus the door and slides form a trough or drawer from which the soot, &c., can be readily removed.

Among the advantages of my arrangement might be mentioned that the trough thus formed is completely closed in at its sides, and hence in removing the soot and ashes none can fall over the sides, and hence a cleaner job can be done.

It will of course be readily seen that upon closing up the hinged door the rods *c* will act to push back the side slides to their original position. A suitable fastening device *r* will be provided for locking the door in closed position.

It is evident that many slight changes which might suggest themselves to a skilled mechanic could be resorted to without departing from the spirit and scope of my invention, and hence I do not wish to limit myself to the precise construction herein shown.

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

1. The combination, with a chimney, of a hinged front or door, slides arranged at the sides of the chimney, and connections between

said door and slides, whereby the opening of the door causes the sliding forward of said slides, substantially as described.

5 2. The combination, with a chimney, of a hinged front or door, slides arranged to operate in suitable grooves in the sides of the chimney, and rods connecting said door and slides, substantially as and for the purpose described.

10 3. The combination, with a chimney, of a front or door hinged thereto, slides operating

in grooves in the sides of the chimney and inclosing said door between them, and rods connecting said door and slides, whereby the opening of the door causes the sliding forward of said slides, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

ALEXANDER GUSDORF.

Witnesses:

GEO. A. RAY,
ALBERT GUSDORF.