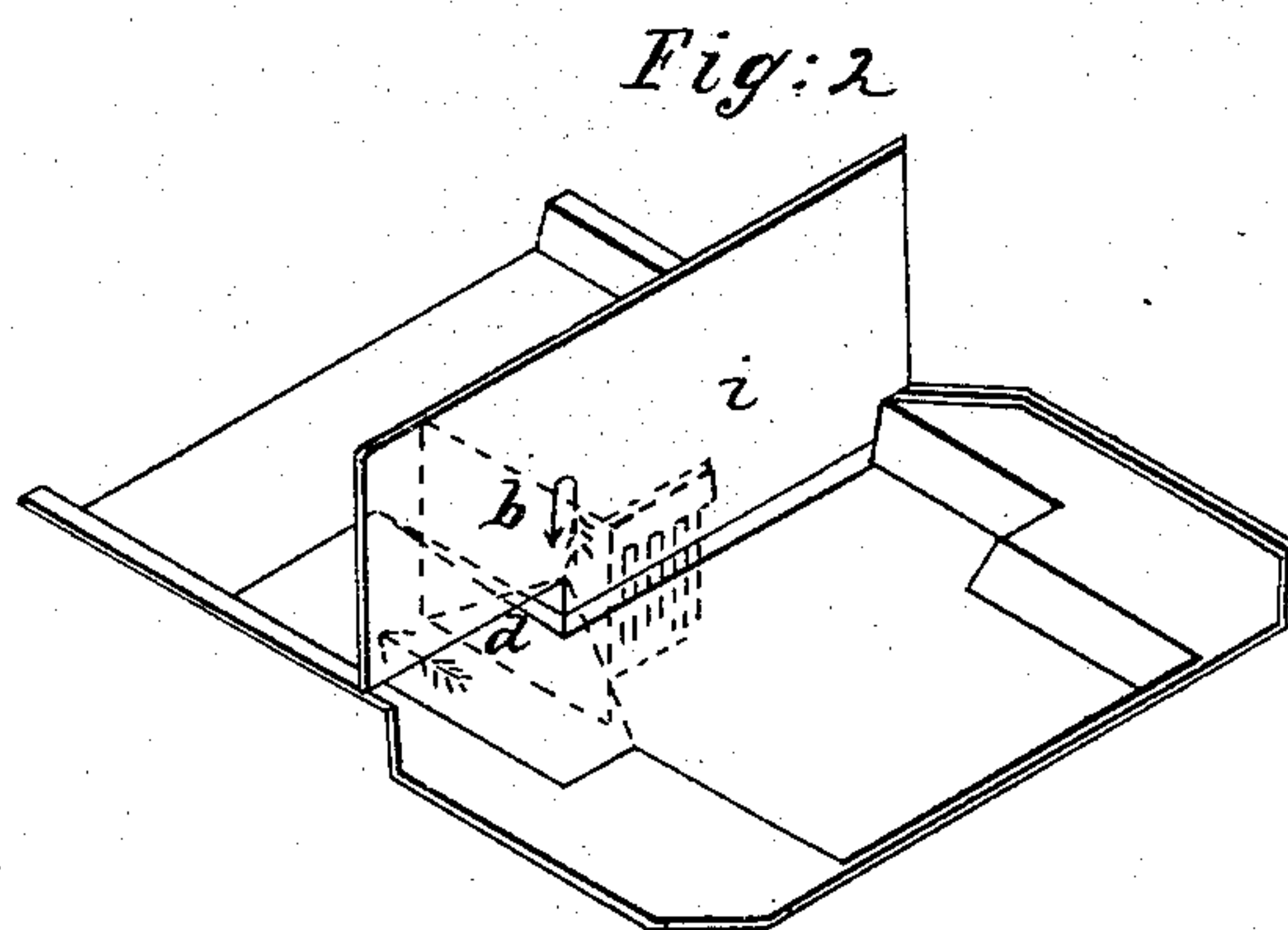
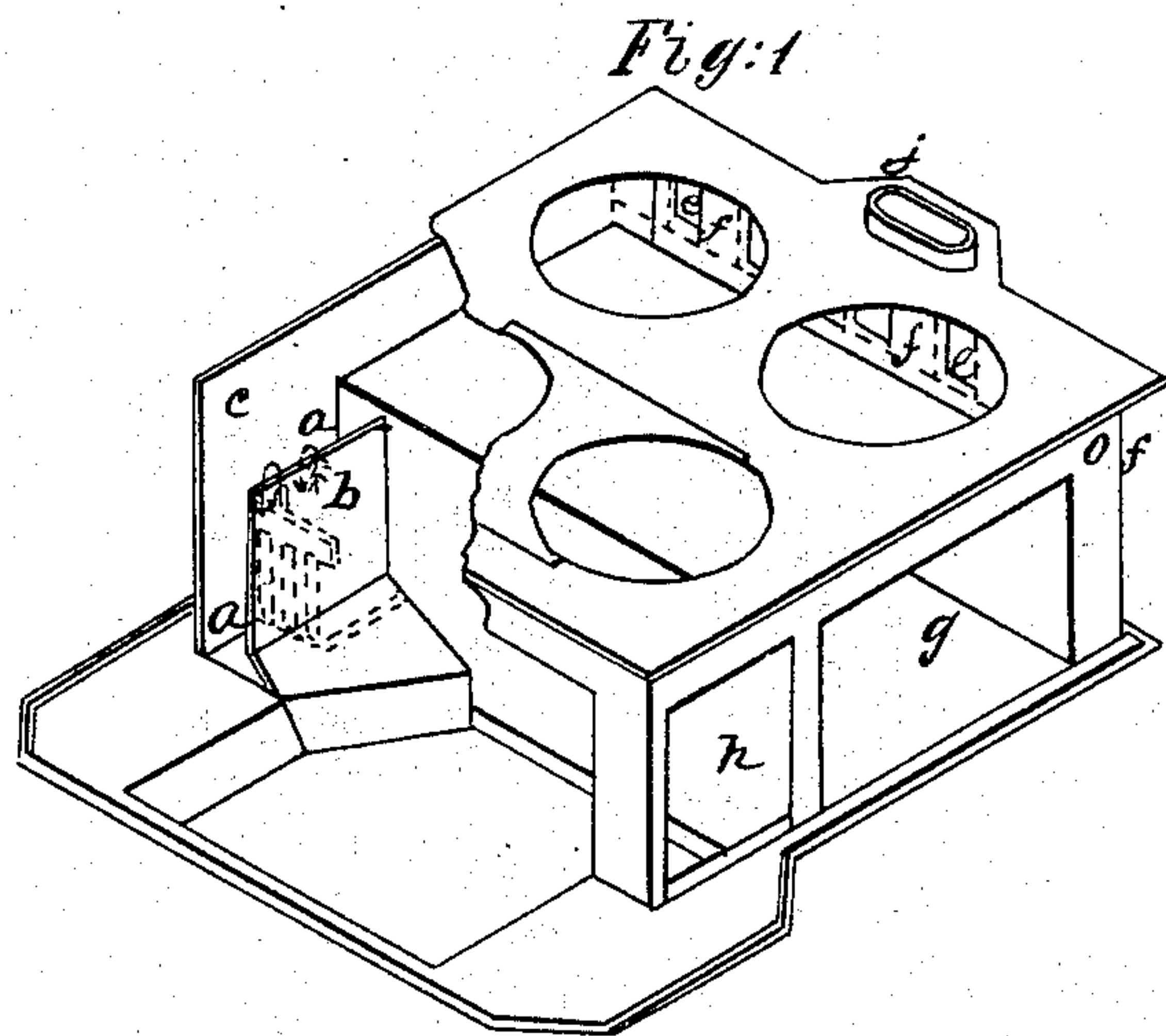


LOW & LEAKE.

Cook Stove.

No. 4,159.

Patented Aug. 20, 1845.



UNITED STATES PATENT OFFICE.

FRANCIS S. LOW AND JOHN S. LEAKE, OF ALBANY, NEW YORK.

COOKING-STOVE.

Specification of Letters Patent No. 4,159, dated August 20, 1845.

To all whom it may concern:

Be it known that we, FRANCIS S. LOW and JOHN S. LEAKE, of Albany, in the county of Albany and State of New York, have invented a new and Improved Cooking-Stove; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 represents the body of a stove after our construction, a portion of the top and front plates being removed to show the interior arrangement. Fig. 2 represents the bottom, and front oven-plate detached.

Our oven *g* is upon the same, or nearly the same level as the fire chamber *h*, and is placed directly behind it. The top, bottom, and back plates of the oven are arranged at a sufficient distance from the contiguous outside plates of the stove to form flues in the usual manner.

In the flue above the oven we place a valve or damper *f f*, which may be either a sliding register as represented or a common swing damper. This damper is placed in the rear of the flue and near the smoke pipe. When open, it allows the hot air from the

fire chamber to pass directly over the top of the oven to the smoke pipe. But when *f f* is closed the current passes down the descending flue *a a* between the end *b*, of the fire box and the outer side-plate of the stove, *c*; thence it passes horizontally through the aperture *d* (Fig. 2,) in the lower part of the front oven plate *i*, into the space or flue between the bottom oven plate and the bottom of the stove; thence by the flue *e, e*, (Fig. 1) between the back plate of the oven and the back-plate of the stove, to the smoke pipe *j*.

We sometimes construct flues as described at both ends of the fire box, placing our fire doors in that case in front of the stove.

What we claim as our invention and desire to secure by Letters Patent is—

The construction of a diving or descending flue at the end of the fire box, communicating with the flue beneath an oven placed immediately behind and upon a level with the fire box, or nearly so.

FRANCIS S. LOW.
JOHN S. LEAKE.

Witnesses:

WM. S. ELLISON,
BENJAMIN H. THAYER.