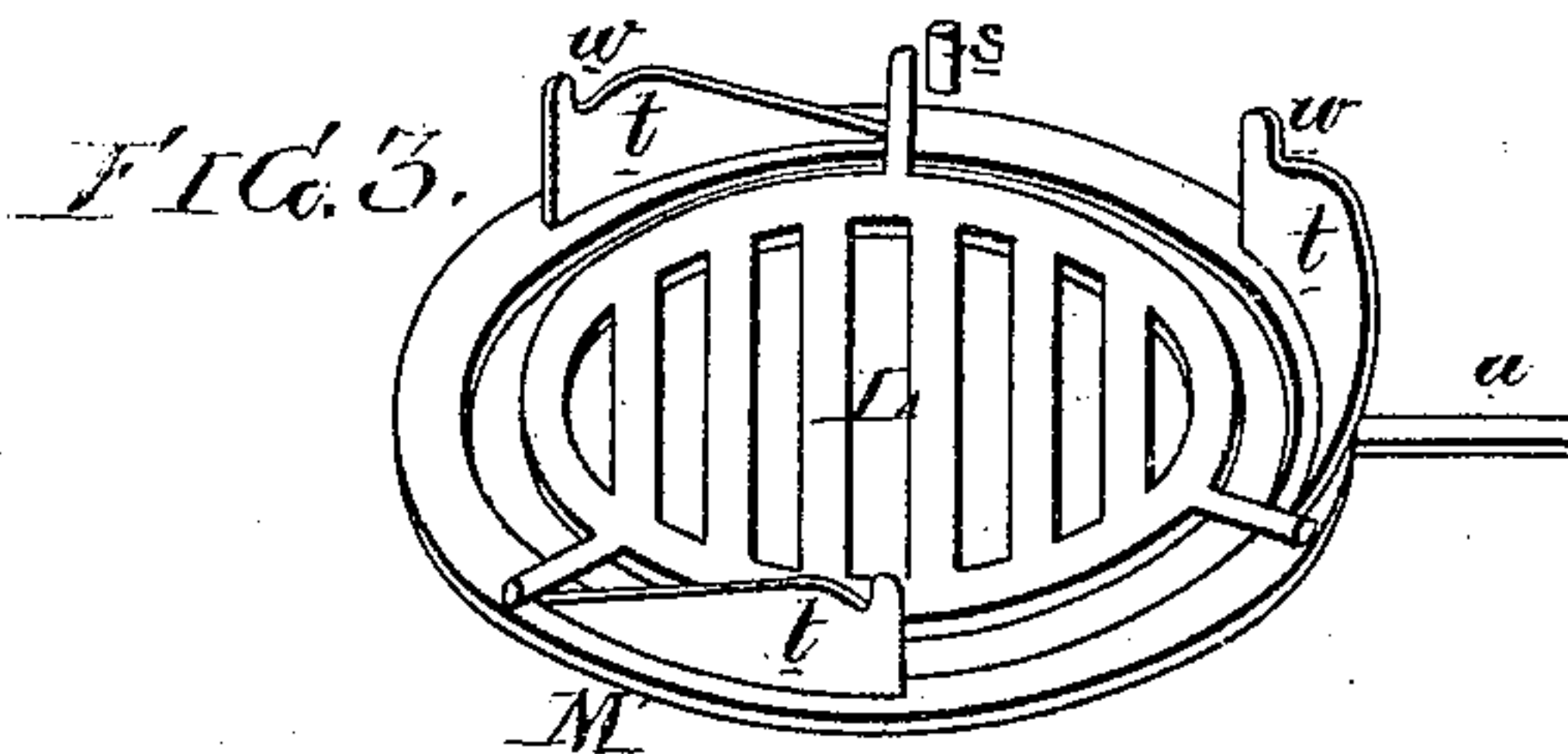
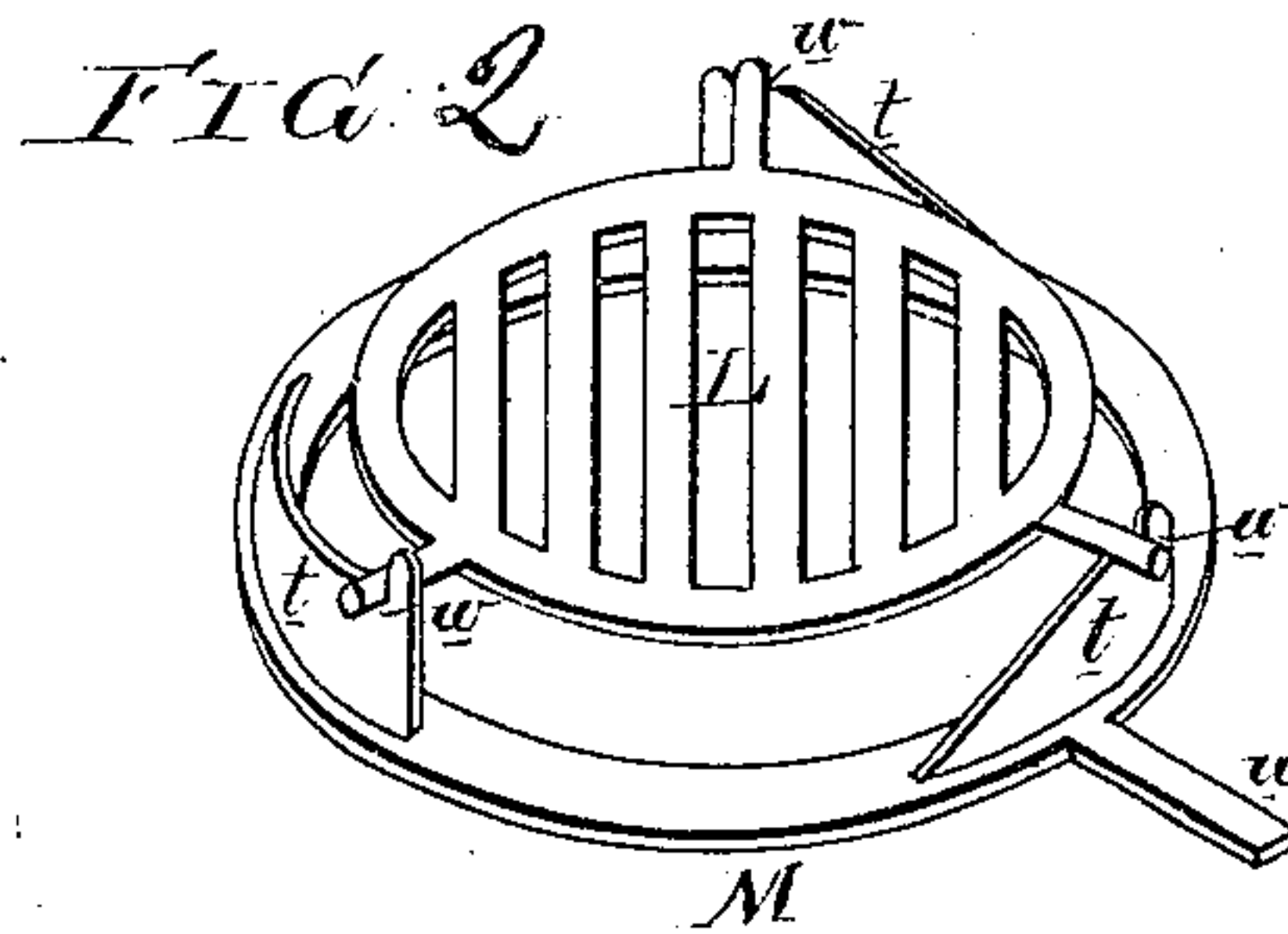
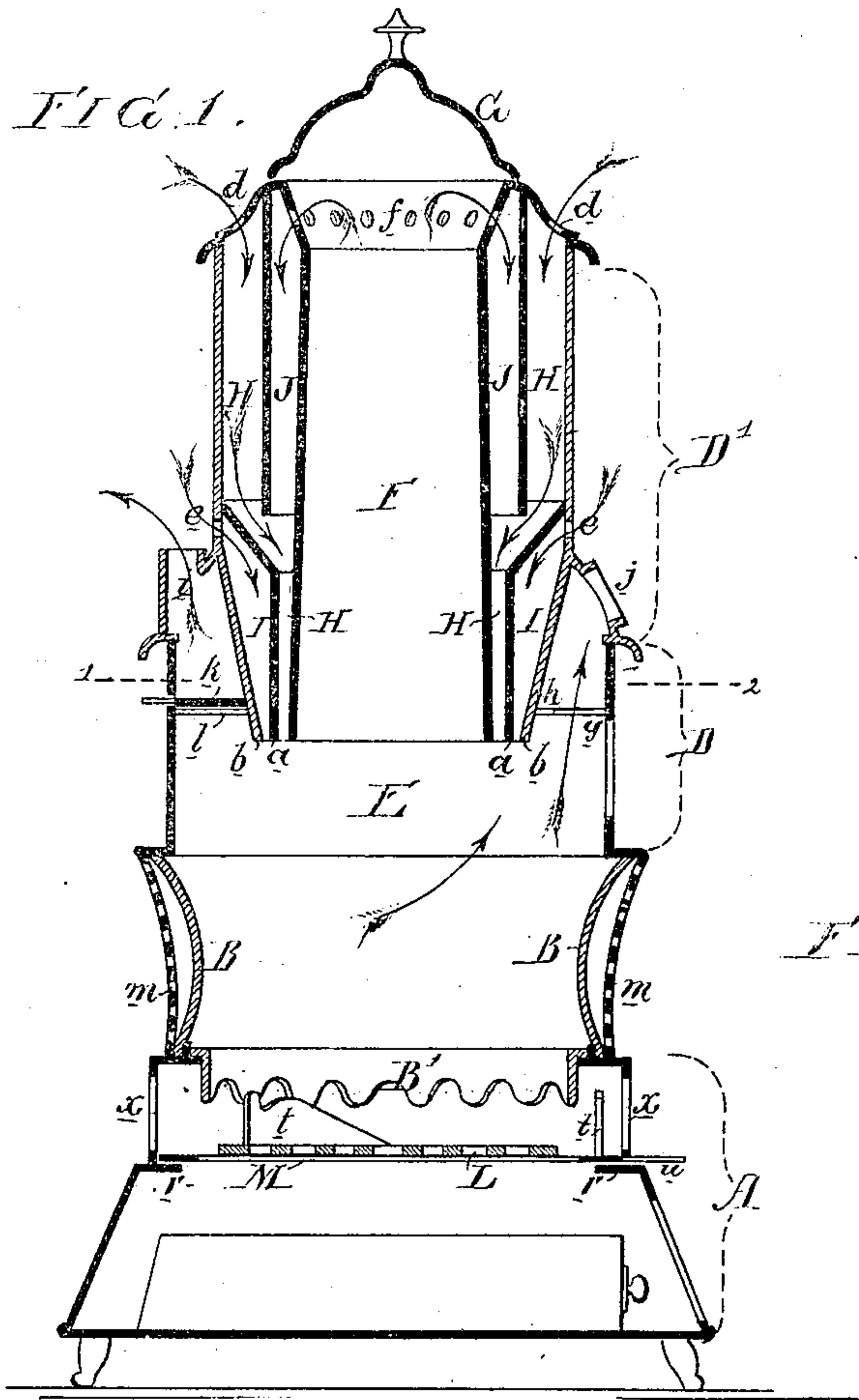


J. Q. C. SEARLE.
Grates for Heating-Stoves.

No. 150,088.

Patented April 21, 1874.



Witnesses, Harry Smith
Thomas M. Twain

J. Q. C. Searle
by his attys.
Howson and Son.

UNITED STATES PATENT OFFICE.

JOHN Q. C. SEARLE, OF TOPEKA, KANSAS.

IMPROVEMENT IN GRATES FOR HEATING-STOVES.

Specification forming part of Letters Patent No. 150,088, dated April 21, 1874; application filed March 2, 1874.

To all whom it may concern:

Be it known that I, JOHN Q. C. SEARLE, of Topeka, Shawnee county, Kansas, have invented certain Improvements in Grates for Heating-Stoves, of which the following is a specification:

My invention consists of a grate, to which both vertical and rotary movements may be imparted by means of a ring provided with inclines, upon which the grate rests, as described hereafter.

In the accompanying drawing, Figure 1 is a sectional elevation of a stove to which my improved grate is applied; Figs. 2 and 3, detached perspective views of the grate and appliances for operating the same.

A is the base of the stove; B, the fire-pot, having a serrated lower edge, B'; D, the portion of the outer casing surrounding the combustion-chamber E; D', the portion of the casing surrounding the magazine F, and G the top of the stove. The grate L of the stove rests upon a ring, M, which is, in turn, supported by an internal ledge, r, of the base A. The grate, when in the position shown in Fig. 3, is prevented from turning by a projection, s, of the base, and can then be raised and lowered by cam-like inclines, t, of the ring M,

when the latter is turned by means of its handle u; but when the said grate has been raised to its full extent, and rests in the notched portions w of the said inclines, it can be turned by and with the ring, for the purpose of raking the fire. Fine ashes, &c., may be dislodged by simply raising and lowering the grate, and clinkers, &c., may be removed when the grate is lowered by introducing a poker between the fire-pot and the grate, as in other stoves of a like character.

I do not, in this application, claim any of the features of the stove illustrated for the purpose of showing a mode of applying my improved grate, as I propose to embody them in a future application for Letters Patent.

I claim—

The combination of a grate, L, a stop, s, and a ring, M, having inclines t for raising, and notches w for retaining, the grate, as and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN Q. C. SEARLE.

Witnesses:

WM. A. STEEL,
HARRY SMITH.