

C. FULTON.

Stove Grate.

No. 89,304.

Patented April 27, 1869.

Fig: 1.

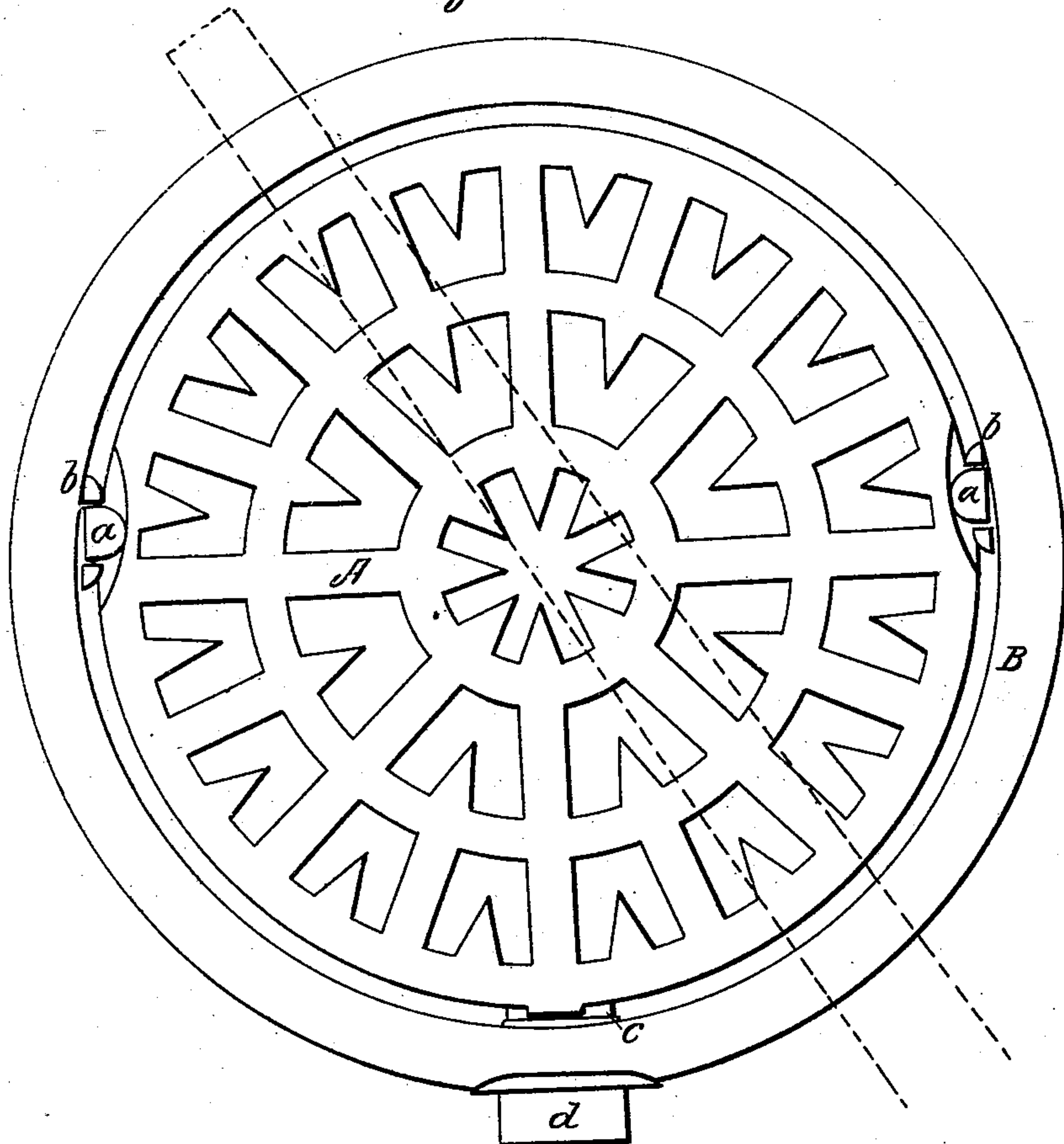
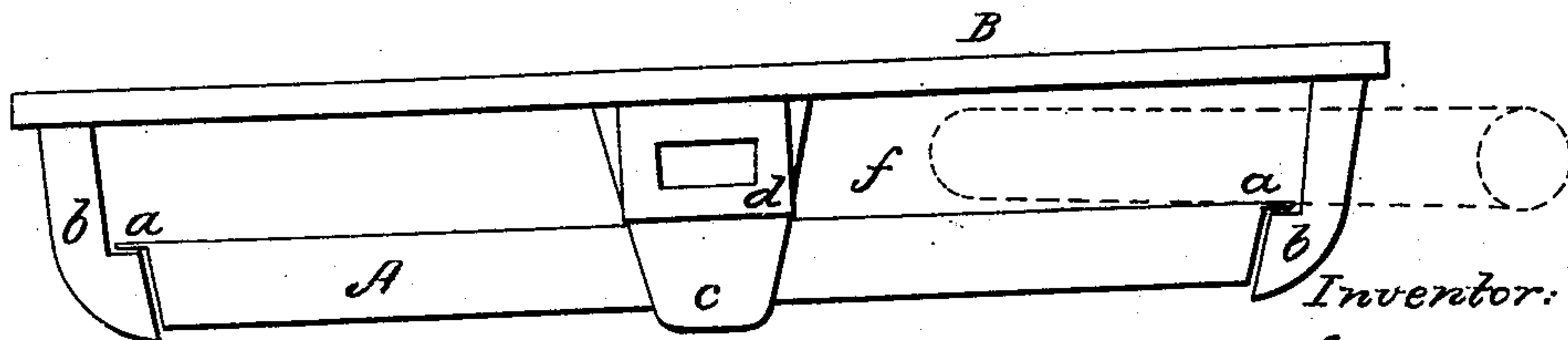


Fig: 2.



Witnesses:

S. W. Allen

Geo W. Mott.

Inventor:
Calvin Fulton.
By J. Fraser & Co.
attys.

UNITED STATES PATENT OFFICE.

CALVIN FULTON, OF ROCHESTER, NEW YORK, ASSIGNOR TO NORMAN H. GALUSHA, OF SAME PLACE.

STOVE-GRATE.

Specification forming part of Letters Patent No. 89,304, dated April 27, 1869.

To all whom it may concern:

Be it known that I, CALVIN FULTON, of the city of Rochester, county of Monroe, and State of New York, (assignor to Norman H. Galusha, of same place,) have invented a certain new and useful Improvement in Stove-Grates; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a plan of my improved grate; and Fig. 2, an elevation.

Like letters of reference indicate corresponding parts in both figures.

My invention consists in combining the grate proper with a circular supporting-ring in such a manner as to be capable of dumping, and yet leave space above its sunken level for the insertion of a poker, horizontally, between the grate and ring for cleaning out clinkers, &c.

In the drawings, A indicates the grate proper, and B the supporting-ring. The grate proper is of usual form, being a skeleton disk with bearings *a a* set a little back from the center to bring the preponderance on one side to prevent accidental dumping. The rim is simply a circular rim resting on suitable bearings in the stove to be shaken or vibrated laterally. It is provided with depending side bearers *b b* to receive the journals *a a*, a similar stop, *c*, to hold the grate from dumping, and a socket, *d*, to receive the shaking-iron.

The feature of novelty in this case is the special arrangement of the vibrating ring and grate, whereby a space, *f*, is left between for the horizontal insertion of a poker through from side to side to remove clinkers, the said

ring and grate being at the same time separate and independent, the former vibrating laterally to shake the ashes, and the latter turning on its journals to dump the coal.

I am aware that the grate and ring in basket form have before been cast in one piece, but such is not the equivalent of my invention; neither are the parts cast separately the equivalent, unless the grate is so sunken as to leave the horizontal space *f* for the insertion of the poker.

By this arrangement I obviate in a great degree the clogging of the stove by clinkers, as the space *f* allows a free removal by the use of the poker, as before stated. In shaking down the ashes the ring and grate are both vibrated. I have demonstrated by practical use that there is no danger of the escape of coal, even of the smaller sizes.

These features of the space for removal of clinkers, the lateral shaking of the ashes, and the vertical dumping of the coal by the employment of the separate grate and ring, I believe to be original with myself.

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

The arrangement of the independent grate A and ring B, as herein described, the grate being sunken and resting in lugs *b b*, so as to leave a space, *f*, and having an independent dumping action, as set forth.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

C. FULTON.

Witnesses:

R. F. OSGOOD,
GEO. W. MIATT.