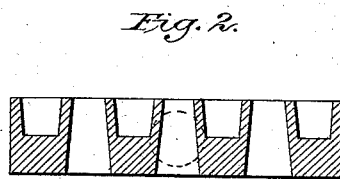
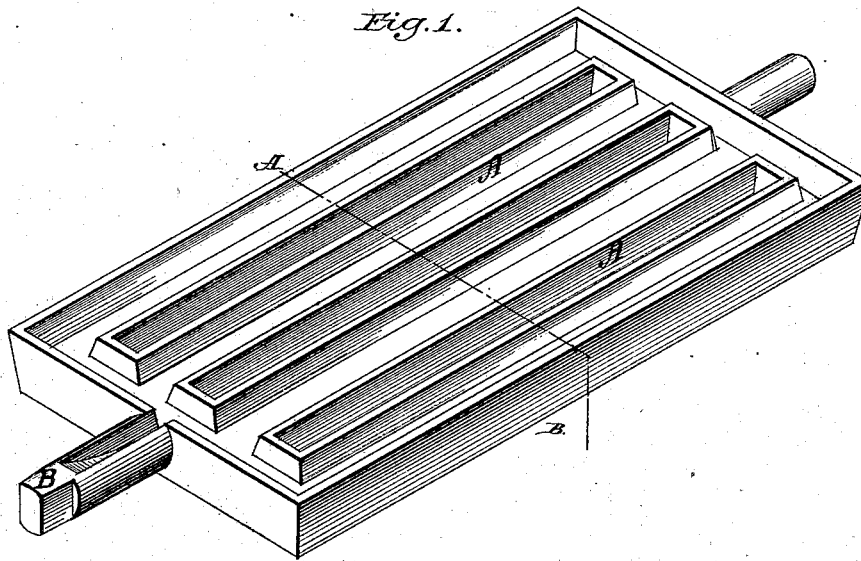


A. H. SCHOLFIELD.

STOVE-GRATE.

No. 187,488.

Patented Feb. 20, 1877.



Attest:

*D C Steery
L S Smith*

Inventor:

Andrew H Scholfield

UNITED STATES PATENT OFFICE.

ANDREW H. SCHOLFIELD, OF WORCESTER, MASSACHUSETTS, ASSIGNOR TO
EVA M. STERRY, OF SAME PLACE.

IMPROVEMENT IN STOVE-GRATES.

Specification forming part of Letters Patent No. **187,483**, dated February 20, 1877; application filed
June 12, 1876.

To all whom it may concern:

Be it known that I, ANDREW H. SCHOLFIELD, of the city and county of Worcester, in the Commonwealth of Massachusetts, have invented certain Improvements in Fire-Grates for Stoves; and I do hereby declare that the following is a clear, full, and exact description of the same, reference being had to the annexed drawing.

The nature of my improvement consists in the deep grooving of the bars for, first, the better protection of the same from the action of the fire, leaving but a very narrow surface exposed to its direct action, while the deep grooves being always filled with ashes, and the cool air passing in between the bars, makes it impossible to warp or burn out the grate; and, secondly, for economizing fuel, by making safe and practicable the use of oils, such as kerosene, for kindling, in place of wood, the stem of the grate being also grooved for this end.

Figure 1 is a perspective view of a grooved stove-grate, as claimed. Fig. 2 represents a sectional view of the same.

Letters A A A A A represent the grooved bars, and B the stem, as connected and com-

bined for the purposes of facilitating and rendering practical and safe the use of oils as kindlers, in the place of, or in connection with, wood or soft coal, substantially as and for the purposes set forth.

The process of kindling is as follows: Dumping my grate of all or part of the ash, I pour my oil into the groove of the stem, from whence it quickly spreads through all the grooves. I place my fuel of whatever kind, and light my fire on the under side of the furnace. I use an open cup or can for the oil—never a closed one. In this way oil may be added with entire safety while the fire is in progress.

What I claim as my improvements, and for which I desire to secure Letters Patent, is—

The grooved fire-grate, with grooved stem, as herein described and shown, constructed and combined to operate substantially as specified.

In testimony that I claim the foregoing I have hereunto set my hand this 3d day of June, 1876.

ANDREW H. SCHOLFIELD.

Witnesses:

DE WITT C. STERRY,
L. L. SMITH.