

(No Model.)

S. L. PAKAS.
FIRE BOX DIVIDER.

No. 480,276.

Patented Aug. 9, 1892.

Fig. 1.

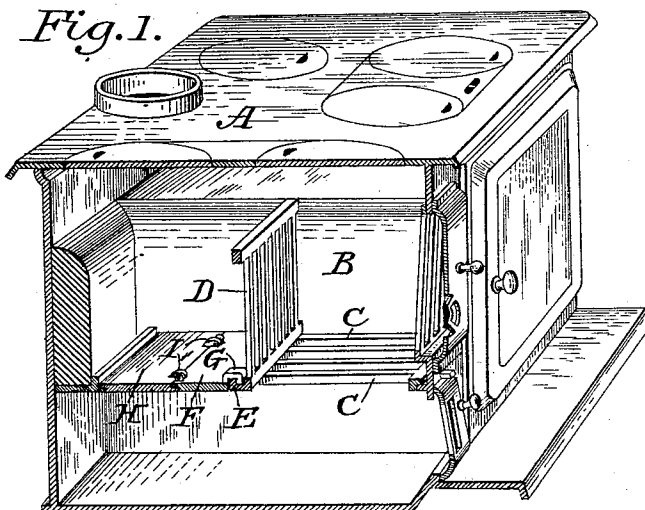


Fig. 2.

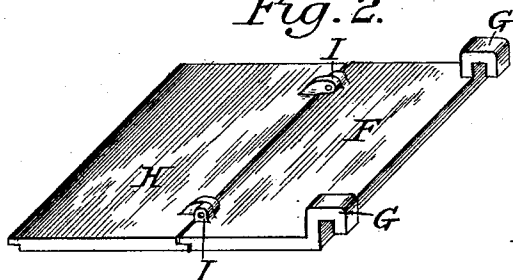


Fig. 3.

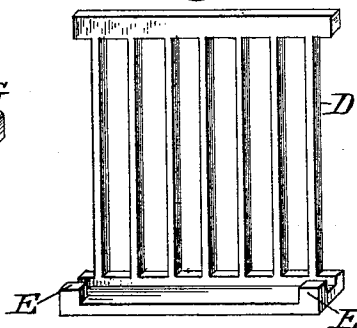
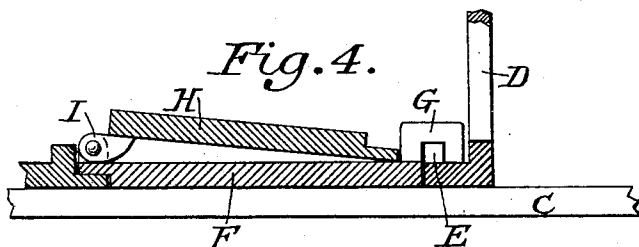


Fig. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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FIRE-BOX DIVIDER.

SPECIFICATION forming part of Letters Patent No. 480,276, dated August 9, 1892.

Application filed November 9, 1891. Serial No. 411,259. (No model.)

To all whom it may concern:

Be it known that I, SOLOMON L. PAKAS, of New York, in the county and State of New York, have invented a new and useful Improvement in Fire-Box Dividers; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

My invention relates to devices which are employed to reduce the size of the fire-box in stoves and ranges, and has for its object to improve the construction of such devices to enable the vertical or grated portion thereof to be separated readily from the other or horizontal portion to be replaced by another when it is burned out or broken, and to provide a construction which shall permit of the easy adjustment of the device to vary the length of the fire-box without being liable to be clogged and rendered inoperative by clinkers and the like.

In the accompanying drawings, Figure 1 is a sectional view in perspective of a portion of a cooking-stove having my improved fire-box divider in position. Fig. 2 is a detailed view in perspective of the horizontal imperforate portion of the device, and Fig. 3 is a similar view of the vertical grate. Fig. 4 is a sectional detail view showing one section of the horizontal plate turned over upon the other.

A stove A, having the fire-box D and grate-bars C C, may be of any desired construction.

The vertical grate D, which serves as a partition to divide the fire-box into two compartments, is formed with horizontal and upwardly-turned fingers E E at its lower end. A solid plate F, adapted to rest upon the grate-bars and to fill substantially the space between the side walls of the fire-box, is provided with horizontal and downwardly-turned fingers G G, adapted to interlock with the fingers E of the vertical grated partition, and thereby to hold the same securely in position. At the same time the grated partition may be

removed readily by raising the plate slightly and moving the grated partition away from the plate.

To enable the length of the fire-box to be varied at will, I attach a second section H to the plate F by a hinge-joint I. If then it is desired to make the fire-box longer than is represented in Fig. 1, the second section may be turned over upon the first section F and the whole device moved bodily toward the end of the fire-box.

In order to close the space which would otherwise be left between the lower end of the grated partition and the end of the solid plate, a narrow flange may be formed on the lower end of the grate to fill the space between the fingers, as represented.

When it is desired to use the full length of the fire-box, my improved divider may be removed readily and without the loosening of any bolts or similar devices. It may at once be taken apart and packed to occupy a small space; or in the same manner the grated partition, which will burn out much more rapidly than the plate, may be replaced by a new one.

I claim as my invention—

1. The combination of a vertical grated partition having horizontal and upwardly-turned fingers and a solid horizontal plate having horizontal and downwardly-turned fingers interlocking with the fingers on the grated partition, substantially as shown and described.

2. The combination of a vertical grated partition, a solid horizontal plate, said grated partition and plate having interlocking fingers, and a second plate connected to the first by a hinge-joint, substantially as shown and described.

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

SOLOMON L. PAKAS.

Witnesses:

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