

(Model.)

F. H. DE GUERRE & W. W. DE LANO.

ADJUSTABLE STOVE GRATE.

No. 256,130.

Patented Apr. 11, 1882.

Fig. 1.

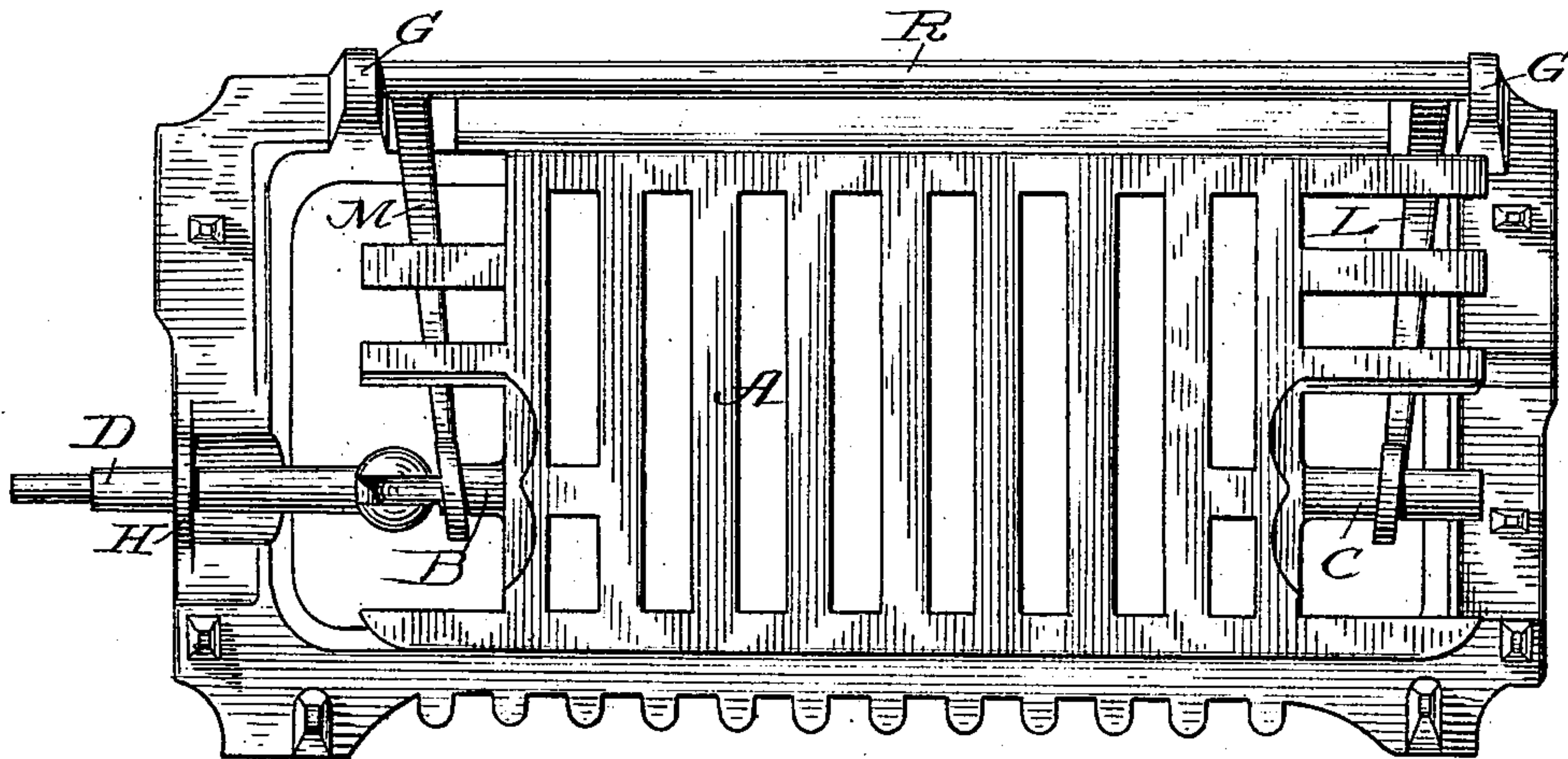
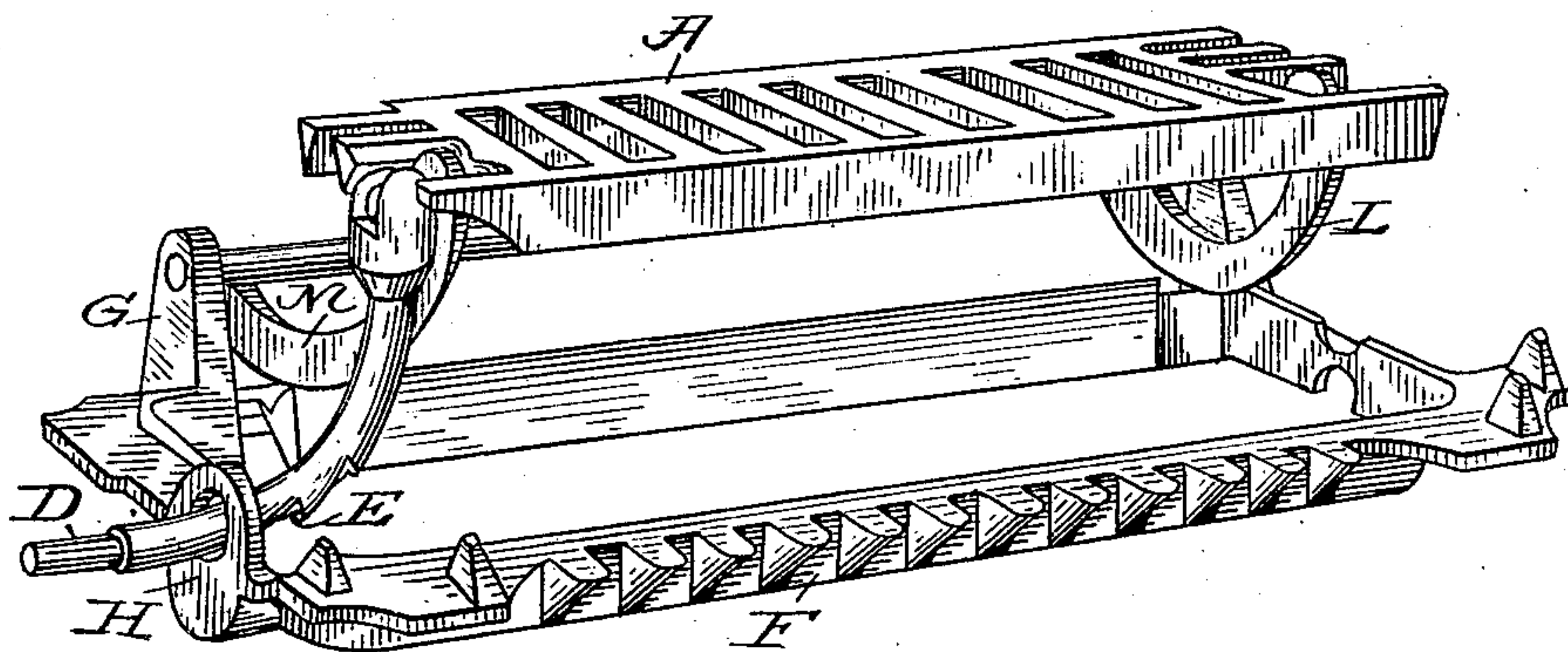


Fig. 2.



Fig. 3.



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UNITED STATES PATENT OFFICE.

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ADJUSTABLE STOVE-GRATE.

SPECIFICATION forming part of Letters Patent No. 256,130, dated April 11, 1882.

Application filed November 17, 1881. (Model.)

To all whom it may concern:

Be it known that we, FRANK H. DE GUERRE and WILLIE W. DE LANO, both of the city and county of San Francisco, and State of California, have invented a new and useful Adjustable Grate, of which the following is a specification.

Our invention relates to an improvement in adjustable grates for stoves and ranges, whereby the fire-space may be reduced or enlarged by raising or lowering the grate.

Our invention consists in combining with a bed-frame a grate mounted on pivoted supports and an operating-lever for elevating such grate, provided with means for locking the same in various positions.

The invention further consists in various details of construction, and in combination of the operative parts, as fully hereinafter described.

In the drawings, Figure 1 is a top view. Fig. 2 is a view of a removable handle for attaching to the elevating-lever. Fig. 3 is a perspective of the grate elevated.

A represents the grate; B and C, the grate-pivots; D, the adjusting and supporting lever; E, notches upon the same, to serve as stops to hold the grate at the required elevation; F, the bed-frame for the adjusting device and brick-rest for the fire-lining; G, pivot-posts for the supporting-levers; H, the guide-ring and stop for the adjusting and supporting lever.

L and M are supporting-levers, and R is a pivoted connecting-rod, to which the same are attached.

The following is the operation of the same: When it is required to reduce the fire-space above the grate the lever D is forced in, raising the grate with the supporting-levers L and M, which swing upon the pivot-rod R in the pivot-posts G, and when at the desired elevation one of the notches E drops against the inner edge of the guide-ring H, which forms a stop, as shown in Fig. 3, holding the grate in a horizontal position, as shown by the joint

connecting the lever D with the journal C. The guide-ring, being attached to the bed-frame F, renders the device completely portable and adaptable to every construction of range using grates. The connecting-rod R may be set in lugs in the back plate of the fire-box of the range; but by such construction the whole is more inconvenient and complicated in its operation than when hinged in the pivot-posts G, as shown.

When we construct a range expressly for the device, for neatness of construction we form a grooved recess in the back plate of the fire-box to receive the rod R and pivot-posts G. We construct the grate-pivots B and C in relation to their bearings so as to allow a little longitudinal motion for shaking the grate.

The lifter employed is similar to an ordinary griddle-lifter used for stoves and ranges, with the exception that the handle is made hollow to fit upon the end of the adjusting and supporting-lever D; and it will be seen that the additional length of the same being added to the lever D gives an excellent leverage for the purpose of shaking or dumping the grate.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

1. The combination, with the bed-frame, the pivoted rod supported therein, and the rods L and M, of the pivoted grate and the curved operating-lever having a stop, substantially as described.

2. The combination of the adjustable grate, the curved lever D, having a series of notches, and the ring H on the bed-frame, substantially as described.

3. The described adjustable grate, mounted on pivoted supports, in combination with an operating-lever and a series of locking-stops.

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Witnesses:

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