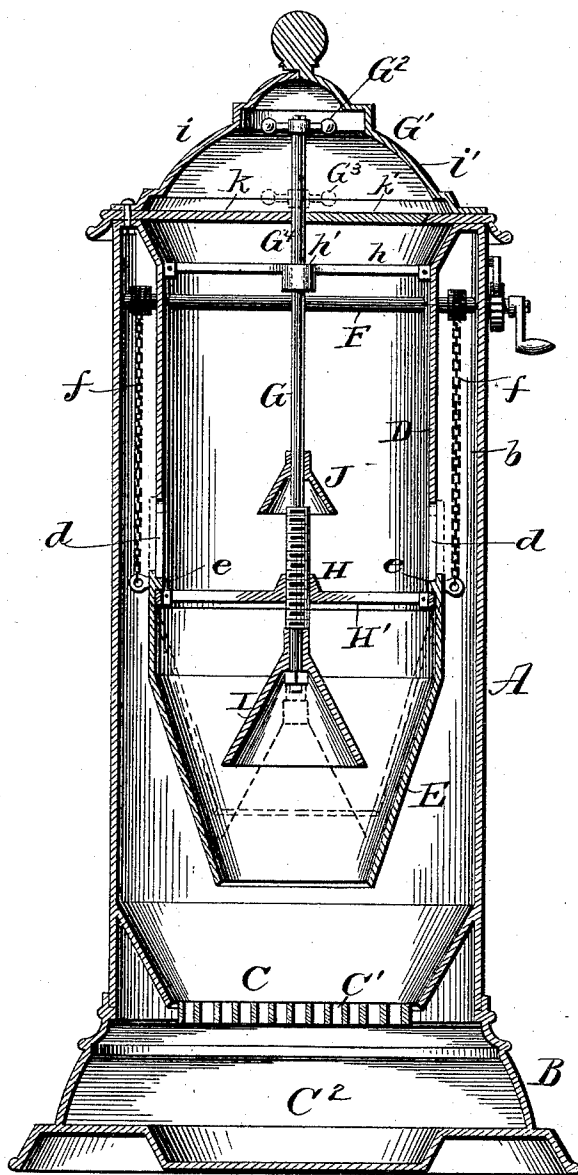


(No Model.)

V. S. MIRACLE.
FUEL FEEDING DEVICE.

No. 496,944.

Patented May 9, 1893.



Witnesses

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UNITED STATES PATENT OFFICE.

VIRGINIA S. MIRACLE, OF JANESVILLE, WISCONSIN.

FUEL-FEEDING DEVICE.

SPECIFICATION forming part of Letters Patent No. 496,944, dated May 9, 1893.

Application filed October 22, 1892. Serial No. 449,650. (No model.)

To all whom it may concern:

Be it known that I, VIRGINIA S. MIRACLE, residing at Janesville, in the county of Rock and State of Wisconsin, have invented certain new and useful Improvements in Fuel-Feeding Devices; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in feeding devices for stoves,—its object being to produce a simple and efficient device for feeding fuel to stoves.

A further object is to construct the device in such manner that the amount of fuel passing through the device can be easily, quickly and effectually regulated.

A further object is to so construct the device that the discharging portion thereof can be made to occupy different positions in the fire pot of the stove, so that said discharge end can be brought into close proximity to the fire, regardless of the amount of fire in the stove.

With these objects in view the invention consists in certain novel features of construction and combinations and arrangements of parts as hereinafter set forth and pointed out in the claims.

The accompanying drawing represents a vertical sectional view of a stove embodying my invention.

A represents an outer casing, B the base of the stove, C the fire pot, C' the grate, and C² the ash pit. Located within the upper portion of the casing A, is a hopper D adapted to extend about half way through the casing and of such diameter as to leave a space *b* between it and said casing. In proximity to the lower end of the hopper D, elongated slots *d* are made in its sides, for the accommodation of pins or stops *e* projecting from the upper end of a lower or discharge receptacle E having a conical discharge outlet. A shaft F is mounted in the upper end of the casing A and hopper D, to one side of the center of the same, and is provided at one end with a crank or handle F'. Drums or wheels F² are carried by the shaft F at diametrically opposite sides of the hopper D and receive chains *f* which chains extend downwardly in the space

b and, at their lower ends, are attached to the discharge spout or receptacle E. A ratchet wheel *g* is carried by the shaft F and is adapted to be engaged by a dog *g'* attached to the outer casing A. Thus it will be seen that the discharge spout may be raised or lowered relatively to the fire in the fire pot by operating the handle F', and that by means of the ratchet wheel and dog it may be retained at any desired position. By means of a feed device constructed in this manner the discharge end of the device can be lowered in close proximity to the fire on the grate, and thus a small fire may be maintained and the fuel economized.

Passing through the hopper D near the upper end thereof, is a cross bar *h*, supporting, at its center, a bearing block *h'*, through which a vertical rod G passes,—said vertical rod terminating at its upper end in the top G' of the stove, where it is provided with a removable handle or key G², whereby to turn said rod,—or, if desired, the removable key may be dispensed with and a fixed handle or key G³ provided and located in proximity to the lid G⁴ of the stove, as shown in dotted lines,—said lid comprising a fixed portion *k* and a removable portion *k'*. The lower end of the vertical rod G is screwthreaded and passes through a similarly threaded bearing block H, carried by a cross bar H' at the lower end of the hopper D. To the lower end of the rod G, below the bearing block, a bell or valve I is attached. A hood or protector J is attached to the rod G and adapted to prevent the screwthreads and bearing H from becoming clogged by fuel. From this construction and arrangement of parts it will be seen that by operating the hand wheel F', the valve I can be readily raised and lowered to regulate the flow of fuel through the conical discharge end of the spout E. The valve I may, if desired, be run down to the lower extremity of the spout E and thus entirely close the same.

The top G' of the stove is made in two parts *i*, *i'*, the part *i* being stationary and the part *i'* movable, and adapted to be swung around, whereby access may be had to the vertical rod G to operate it, and so that fuel can be inserted in the stove, the portion *k'* of the lid G⁴ being removed for this purpose.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

- 5 1. In a fuel feeding device, the combination with a stationary receptacle, of a movable receptacle or spout, an adjustable valve in the movable receptacle or spout and a hood on the rod which carries the valve, substantially as set forth.
- 10 2. In a movable fuel feeding device, the combination with a spout or receptacle having a conical discharge outlet, of a valve adapted to be moved longitudinally in said spout or receptacle, substantially as set forth.
- 15 3. In a fuel feeding device, the combination with a stationary receptacle and a movable discharge spout, of a shaft carried in bearings supported by the stationary receptacle, one of said bearings being screw-
20 threaded for the accommodation of screw threads on the shaft and a valve carried by said shaft, substantially as set forth.
4. In a fuel feeding device, the combination with a stationary receptacle and a dis-
25 charge spout, of a shaft carried in bearings supported by the stationary receptacle, one of said bearings being screwthreaded for the accommodation of screw threads on the shaft,

a valve carried by said shaft, and a hood on the shaft above the screwthreads, substantially as set forth. 30

5. In a fuel feeding device, the combination with a stationary receptacle having straight elongated slots in its sides, of a discharge spout or receptacle, pins or stops projecting from said spout or receptacle and adapted to enter the elongated slots in the stationary receptacle, and means for raising and lowering said discharge spout or receptacle, substantially as set forth. 35 40

6. In a fuel feeding device, the combination with an outer casing, of a receptacle projecting downwardly within the outer casing, a movable spout or receptacle, a shaft supported by the outer casing and receptacle, 45 flexible connections between said shaft and movable spout or receptacle, and means for rotating said shaft, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses. 50

VIRGINIA S. MIRACLE.

Witnesses:

WM. E. SPICER,
H. S. SLOAN.