

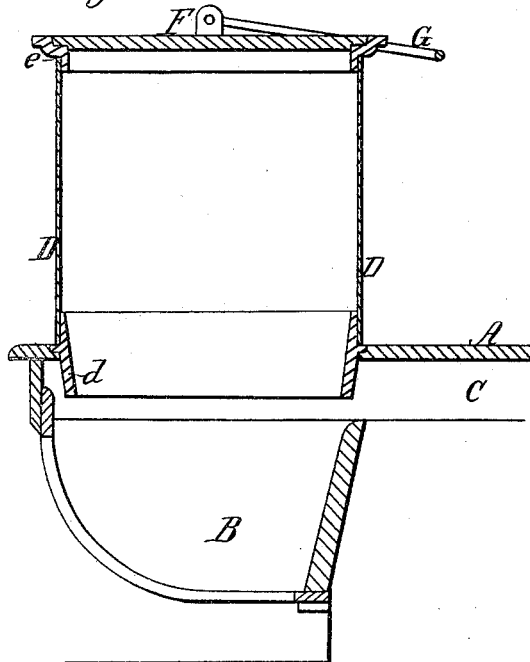
*L. Bridge.*

*Magazine Cook Stove.*

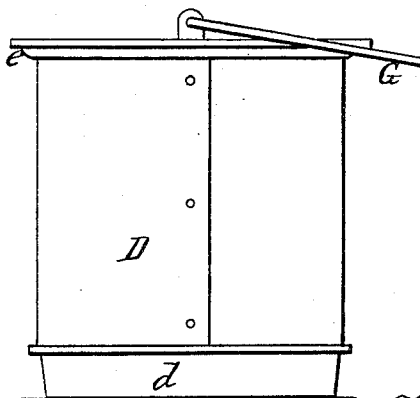
*N<sup>o</sup> 12,013.*

*Patented Feb. 21, 1871.*

*Fig. 1.*



*Fig. 2.*



*Witnesses;*  
*Myself*  
*John Parker*

*Inventor;*  
*Lewis Bridge*  
*By his Atty*  
*H. Howson*

# United States Patent Office.

LEWIS BRIDGE, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO DAVID STUART AND RICHARD PETERSON, OF SAME PLACE.

Letters Patent No. 112,013, dated February 21, 1871.

## IMPROVEMENT IN DETACHABLE MAGAZINES FOR COOKING-STOVES AND RANGES.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern :*

Be it known that I, LEWIS BRIDGE, of Philadelphia, Pennsylvania, have invented an Improvement in Detachable Feeders or Magazines for Cooking-Stoves and Ranges; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention consists of a detachable magazine or feeder adapted to the boiler-hole of a cooking-stove or range, and constructed in the peculiar manner described hereafter.

The object of my invention is to simplify the construction of and, consequently, the expense of manufacturing the said magazines.

A further object of my invention is to prevent the escape of noxious gases from the stove into the room.

In order to enable others skilled the art to make and use my invention, I will now proceed to describe the manner of constructing and applying the same, reference being had to the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 is a vertical section of my detachable feeder or magazine for cooking-stoves or ranges, and Figure 2, an exterior view of the same.

A portion of an ordinary cooking-stove is shown in section by dotted lines in fig. 1—

A being part of the top plate;  
B, the fire-place; and  
C, the flue for the passage of the products of combustion beneath the top plate.

In cooking-stoves and ranges it is important that the fuel should remain ignited during the night, so that it may be quickly made available for cooking purposes in the morning.

In order to afford a sufficient supply of coal to maintain the fire in stoves of small capacity, detachable magazines fitting the openings in the stove-plates are used.

In my improvement the magazine consists of a cylindrical body, D, of sheet metal, riveted at the top to a cast-metal ring, *e*, and at the bottom to a cast-metal ring, *d*.

The lower ring *d* is adapted to the boiler-hole of the stove or range, and projects a short distance through the same.

The upper ring *e* is recessed for the reception of the cover F, which is also arranged to fit the boiler-hole of the stove.

On retiring for the night, or when the use of the stove or range has to be discontinued for some time, the above-described magazine is fitted to one of the two usual boiler-holes above the fire-place, filled with fuel, and the cover F adjusted to its place on the top of the magazine.

No preliminary manipulation of the fire or replenishing the same with fuel is required preparatory to the above-described adjustment of the magazine, the limited supply of fuel in which will serve to maintain the proper ignition, which is confined, or nearly so, to the limits of the magazine, instead of being allowed to pervade the entire mass of fuel, which would be the case in the absence of the magazine.

When the stove or range has to be again used for cooking all that is necessary is to rake the fire from below, and then elevate the magazine by means of a suitable handle, G, and place it on one side for future use.

Whatever fuel may remain unconsumed in the magazine will be left behind in the fire-place, where, with other fuel therein, it is soon reduced to a proper state of ignition for cooking purposes.

### *Claim.*

The magazine, composed of the sheet-iron body, the cast-iron ring E, arranged for the reception of the cover F, and the cast-iron ring *d* for fitting a boiler-hole of the stove, all substantially as and for the purpose described.

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

Witnesses:

LEWIS BRIDGE.

ANDREW J. BOSWELL,  
WM. A. STEEL.