

J. H. MAHRENHOLZ.
Chargers for Stoves.

No. 148,475.

Patented March 10, 1874.

Fig. 1.

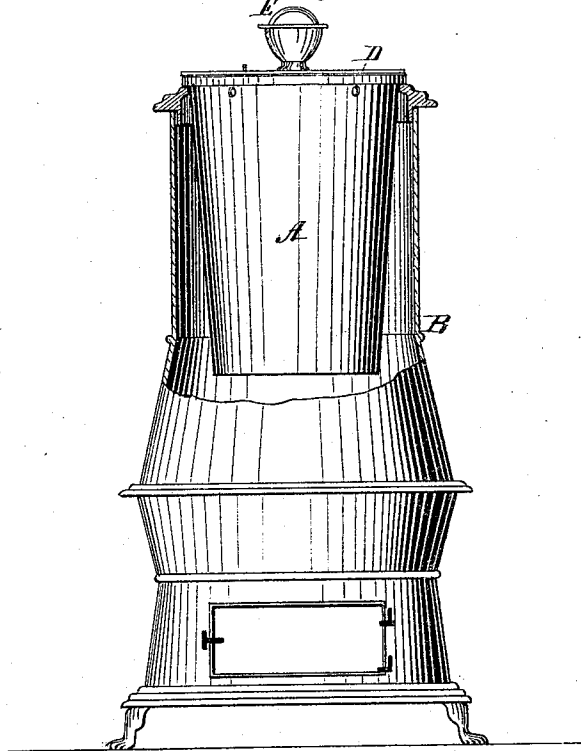


Fig. 2.

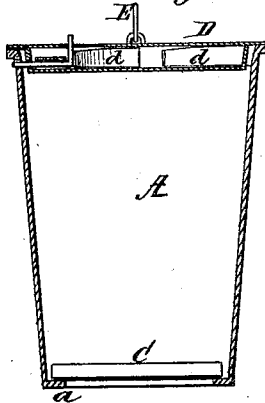
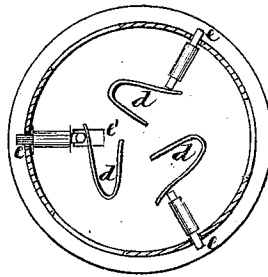


Fig. 3.



Witnesses:

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JOHN H. MAHRENHOLZ, OF NEW YORK, N. Y.

IMPROVEMENT IN CHARGERS FOR STOVES.

Specification forming part of Letters Patent No. **148,475**, dated March 10, 1874; application filed February 13, 1874.

To all whom it may concern:

Be it known that I, JOHN H. MAHRENHOLZ, of the city, county, and State of New York, have invented a new and Improved Charger for Stoves; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a partly sectional elevation of a stove provided with my improved charger. Fig. 2 is a sectional elevation of the charger. Fig. 3 is a horizontal section of the cover of the charger.

The invention is an improvement in the class of fuel magazines or feeders for magazine-stoves which are made detachable and provided with a hinged or sliding bottom to control or regulate the discharge of fuel as to time and quantity. The invention consists in a magazine or charger, of cylindrical or other suitable form, made of iron or other incombustible material, which is provided with a combustible bottom, and detachable.

The charger is filled with coal, in the usual way, before being placed in the stove, and, so soon as the bottom or part thereof is burned away, the coal will begin to feed downward into the fire-pot or chamber, and continue to do so until the charger becomes empty. A filled charger is then substituted for the empty one, and this operation repeated as often as required, or so long as the fire is to be kept up.

The chargers may be used in any kind of stove adapted to receive them, and are provided with a cover having a handle by which to lift and carry them about.

In the drawing, the charger A is shown of a tapered form, and provided with a flange around the top to support it in a stove, B. Around the bottom, and projecting inward, is a flange, *a*, on which rests the wooden disk or plate C. Other material than wood may be employed, if of a sufficiently combustible na-

ture, but wood is preferable, as being cheapest. The cover D is rabbeted around the edge, and the flange thus formed rests on the top of the charger. The means of securing the cover in place are radial sliding bolts *e*, acted on by springs *d*. The bolts have knobs that work in slots in the top portion of the cover, by which they may be drawn back out of the holes in the side of the charger to release the cover. A handle, E, is attached to the cover at its center, by which the charger is lifted into and out of a stove.

The tapering form of charger adapts it for stoves in which it cannot be wholly inserted. In such case, it will project out of the stove more or less.

The charger may be supplied with coal in quantity sufficient to last one, twelve, or twenty-four or more hours, as required, the limit being only the particular size of the charger.

As generally used, a number of chargers, two or more, will be employed for each stove, and when the supply in one has been exhausted it will be removed and the filled charger substituted, without consuming more time, and with less noise and escape of dust, &c., than ordinarily attends the discharge of a single hod into a stove.

The invention is especially useful on railways, since it obviates the use of bunkers, hods, or other receptacles for coal, and saves the annoyance to passengers caused by the frequent supplying of fuel to the stoves. The filled chargers may be carried on the train, packed away in any convenient place, and utilized as often as required.

What I claim is—

The removable fuel-charger A, having the combustible disk or bottom C, the whole adapted to be used as a magazine, substantially as shown and described.

JOHN H. MAHRENHOLZ.

Witnesses:

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