

DAVID T. MILLER.
Improvement in Ash Leaches.

No. 125,607.

Patented April 9, 1872.

Fig. 1.

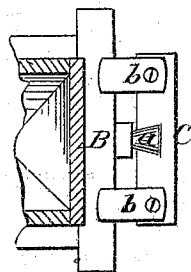
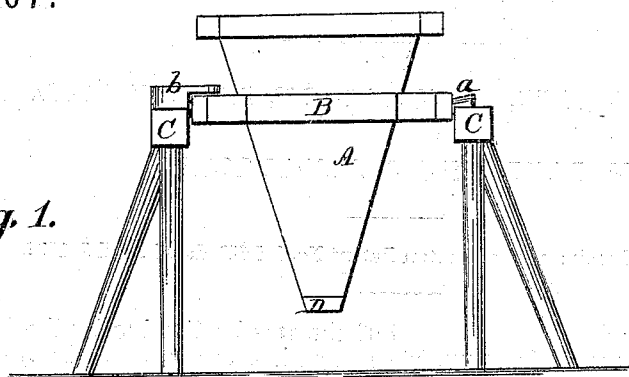


Fig. 2.

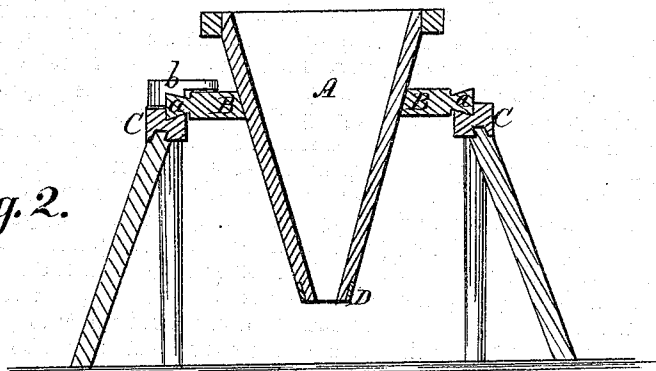
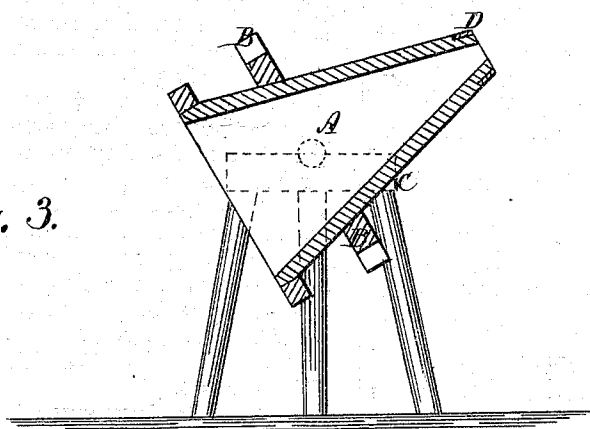


Fig. 3.



Witnesses:

J. West Hagner.
W. B. Polkinton

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by Johnson, Klauke & Co.
his Attorneys

UNITED STATES PATENT OFFICE.

DAVID T. MILLER, OF WOODBURY, PENNSYLVANIA.

IMPROVEMENT IN ASH-LEACHES.

Specification forming part of Letters Patent No. 125,607, dated April 9, 1872.

To all whom it may concern:

Be it known that I, DAVID T. MILLER, of Woodbury, in the county of Bedford and State of Pennsylvania, have invented certain new and useful Improvements in Ash-Hoppers for Making Lye, of which the following is a specification:

The device is more especially adapted for the domestic manufacture of lye; and my improvement therein consists in adapting the pivoted leach for application to a pair of common independent movable trestles, and constructing the journal-bearings, by which the leach is suspended in a condition to be revolved, of swelling or conical form, so as to fit into corresponding recesses upon trestles to form a lock-bearing to hold the trestles and leach in place while the latter is being tilted, whereby I am enabled to utilize the ordinary removable testles for the leach support, and render the suspending-journals the means of holding the parts together and admit of their easy separation.

This improvement is highly advantageous and useful, inasmuch as by it the parts can be separated when not required, and the trestles used about the place for other purposes. The swelling form of the journals tends constantly to hold the trestles together in any position of the leach, and the latter is removed by lifting its bearers out of the locking-sockets of the trestles.

In the accompanying drawing, Figure 1 represents an elevation of my improved tilting ash-hopper. Fig. 2 represents a longitudinal vertical section, showing the bearings of the pivots and the locking-buttons; and Fig. 3 represents a cross-section, showing the manner of tilting the hopper.

The ash-hopper A is provided with a suspending and holding frame, B, from two sides of which frame project swelling gudgeons *a*, fitting into suitable recesses in the cross-bars

of the trestles C, whereby the hopper can be easily tilted and the ashes dumped. By means of the peculiar construction of the gudgeons and their bearings, which is clearly shown in the drawing, any lateral displacement of the independent trestles is prevented, and they are held securely together. On the cross-bar or bars of the trestles C are locking-buttons *b*, which are rabbeted on their under sides to engage with the holding-frame B of the hopper. This serves to hold the hopper in its vertical position, and avoids any accidental tilting by children or animals.

Another feature of my invention is the iron collar D at the apex of the hopper, which serves to hold the slabs firmly together.

The advantages of my hopper are manifold, and apparent to every person who has had the smallest experience with the old time hopper. A child can fill the hopper and dump it. It is easily moved from place to place; the trestles, being unconnected, can be laid aside and all put under cover. It makes little or no dirt, and all the refuse incidental to the old hoppers is avoided; and, moreover, the old hoppers, being fixtures wherever located, are often objectionable on that account, and the portable feature of my invention is of great advantage in using it.

Having described my invention, I claim—

In a suspended tilting ash-leach, the swelling or conical locking-journals *a*, arranged in corresponding-shaped sockets in removable trestles C to hold the parts together while tilting the leach, and admit of their separation, as and for the purpose described.

The above specification of my improvement in ash-hoppers for making lye signed this 13th day of February, A. D. 1871.

DAVID T. MILLER.

Witnesses:

A. E. H. JOHNSON,
ALEXR. A. C. KLAUCKE.