(No Model.)

2 Sheets—Sheet 1.

W. LEWIS & A. H. ROSS.

ASH SIFTER.

No. 508,728. Patented Nov. 14, 1893.

FIG. 1.

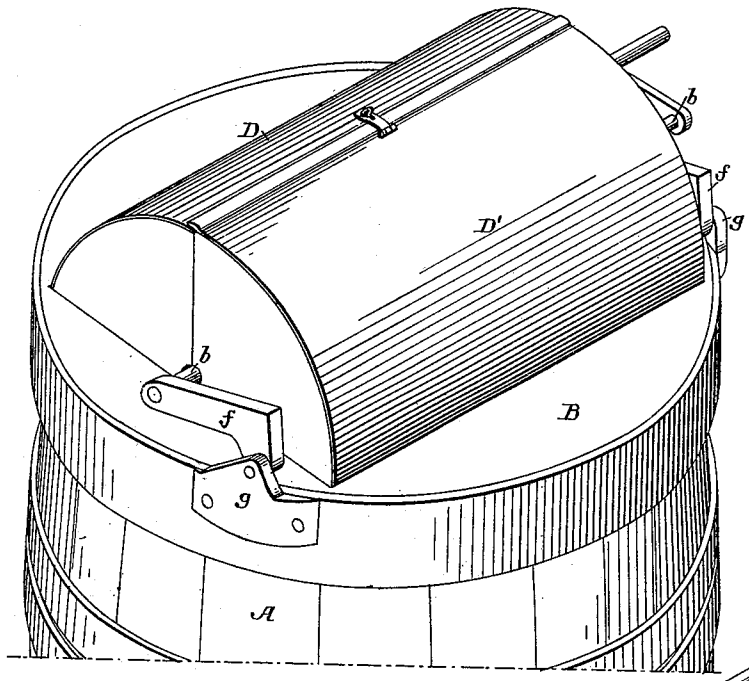
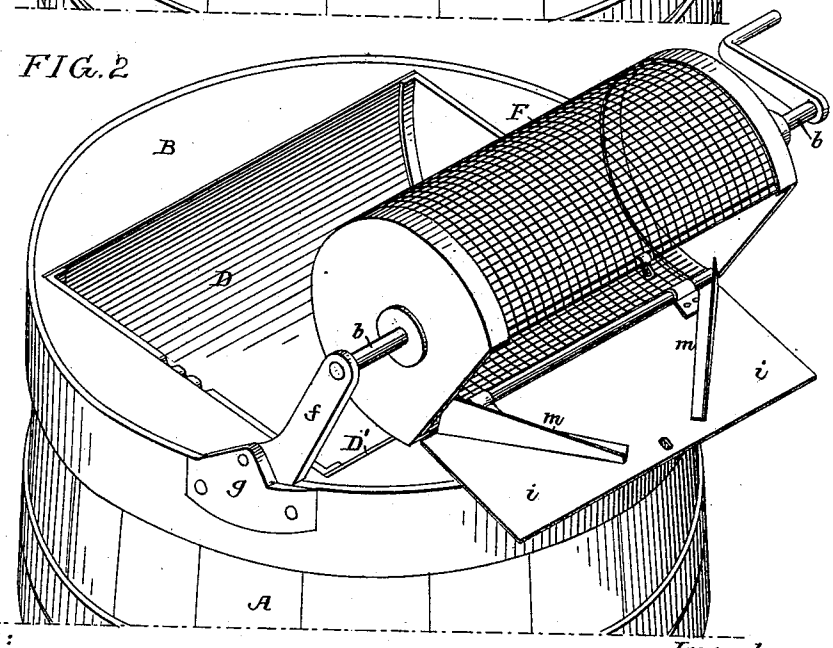


FIG. 2



Witnesses:
Alex. Barkoff
R. Schleicher

Inventors
Walter Lewis and
Augustus H. Ross
by their Attorneys
Howson & Howson

THE NATIONAL LITHOGRAPHING COMPANY,
WASHINGTON, D. C.

(No Model.) 2 Sheets—Sheet 2

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FIG. 3.

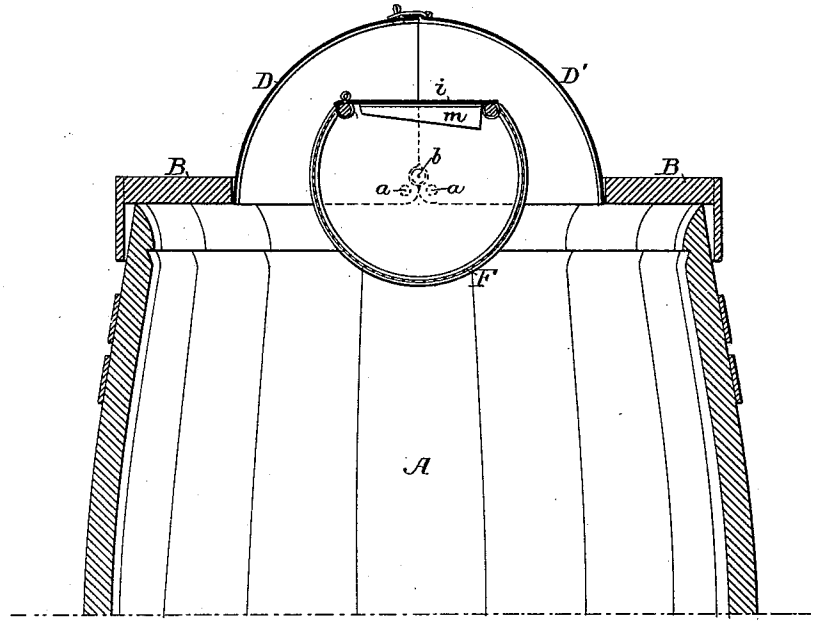
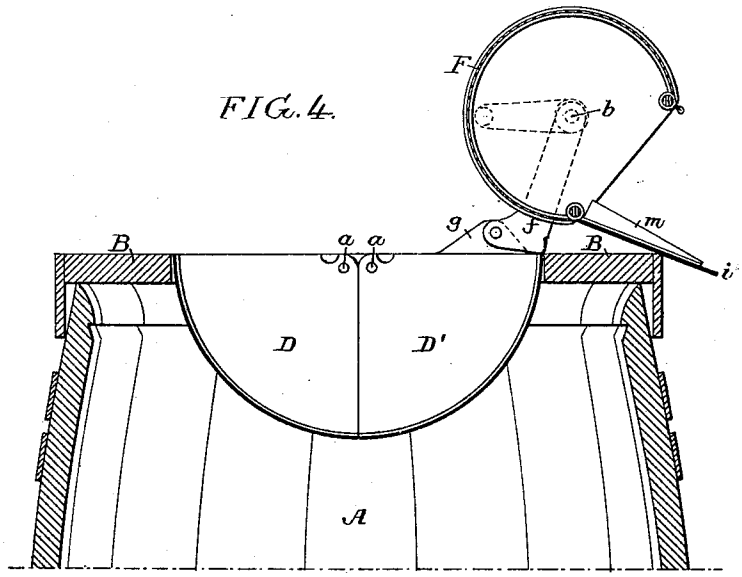


FIG. 4.



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UNITED STATES PATENT OFFICE.

WALTER LEWIS AND AUGUSTUS H. ROSS, OF PHILADELPHIA, PENNSYLVANIA.

ASH-SIFTER.

SPECIFICATION forming part of Letters Patent No. 508,728, dated November 14, 1893.

Application filed March 13, 1893. Serial No. 465,726. (No model.)

To all whom it may concern:

Be it known that we, WALTER LEWIS and AUGUSTUS H. ROSS, citizens of the United States, and residents of Philadelphia, Pennsylvania, have invented certain Improvements in Ash-Sifters, of which the following is a specification.

One object of our invention is to so construct an ash sifter as to prevent the escape of dust during the sifting operation as well as during the time that the coarse ashes, coal and clinkers are being dumped from the sifter, a further object being to provide convenient means for dumping such coarse ashes, &c., from the sifter and for directing them into a suitably located receptacle. These objects we attain in the manner hereinafter set forth, reference being had to the accompanying drawings, in which—

Figure 1, is a perspective view of our improved ash sifter, showing the parts in the position which they assume while the ashes are being sifted. Fig. 2, is a perspective view showing the parts in position for dumping the ashes, &c. Fig. 3, is a transverse section of the device with the parts in the position shown in Fig. 1; and Fig. 4, is a transverse section with the parts in the position shown in Fig. 2.

A represents part of an ordinary barrel, box, or other receptacle for the fine ashes, and B a lid or cover fitting snugly thereto so as to prevent the escape of dust around it. In this lid or cover B is a central rectangular opening to which is fitted, with reasonable snugness, a semi-cylindrical hood comprising two quarter segments D D′, the end plates of each of these segments being hung to the lid or cover B by means of pins *a* so that said segments can be raised above the lid or cover B, as shown in Figs. 1 and 3, or can be dropped so as to meet below said lid or cover, as shown in Figs. 2 and 4. The casing of one-half of the hood is so constructed, by preference, as to slightly overlap the other half when the hood is lifted, as shown in Figs. 1 and 3, the two parts of the hood being then secured together by any suitable form of catch or fastening.

The rotary sieve F has projecting shafts or spindles *b* extending beyond the heads of the same and adapted to bearings in arms *f* which are hung to blocks *g* secured to the lid or cover B, so that said rotary sieve may be adjusted to the position shown in Figs. 1 and 3, where it can be inclosed by the hood D D′, the ends of the hood having recesses for the reception of the shafts or spindles of the sieve when said hood is raised, so that while the sieve is being rotated and the ashes are being sifted, the hood incloses the sieve and prevents the escape of dust and fine ashes, the latter dropping directly into the barrel or receptacle beneath the sieve. When the ashes have been fully sifted the two parts of the hood are permitted to swing downward, as shown in Figs. 2 and 4, so as to close, from below, the opening in the lid or cover B, and thus again prevent the escape of dust or fine ashes from the barrel. The arms *f* are now free to be lifted so as to swing the rotary sieve to the position shown in Figs. 2 and 4, the discharge of the coarse ashes, coal and cinders from the sieve being effected by opening a door *i* forming part of the sieve casing. This door has formed upon its inner side inclined wings or guides *m* which direct the ashes, &c., to a central point and thus insure their delivery into a bucket, pail, or other receptacle suitably located.

When the sieve is in use the door *i* is held in place by any available form of catch or fastening.

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

1. The combination of a rotary sieve, with the lid or cover having an opening within which is a two-part hood pivoted to said lid or cover so that its two parts can be swung upward to meet above the sieve, or downward to meet below the same, substantially as specified.

2. The combination of the lid or cover, the rotary sieve, the pivoted arms carrying the same, and a two-part hood pivoted to the lid or cover so that its two parts can be swung upward to meet above the sieve when the latter is in use, or downward to meet below the

sieve when the latter has to be swung outward for discharging its contents, substantially as specified.

3. The combination of the lid or cover, the arms hung thereto, and the sieve having shafts or spindles carried by said arms, and a hinged cover with inclined guide wings thereon, substantially as specified.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

WALTER LEWIS.
AUGUSTUS H. ROSS.

Witnesses:
FRANK E. BECHTOLD,
WILLIAM A. BARR.