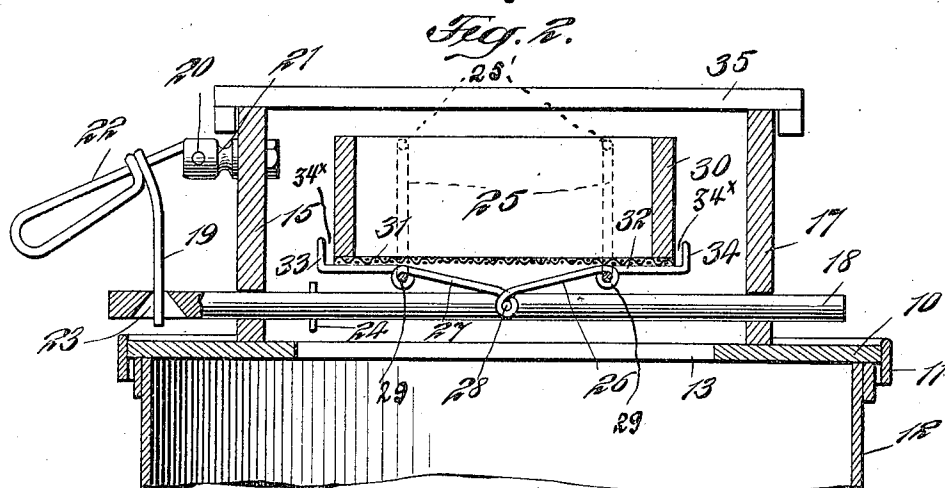
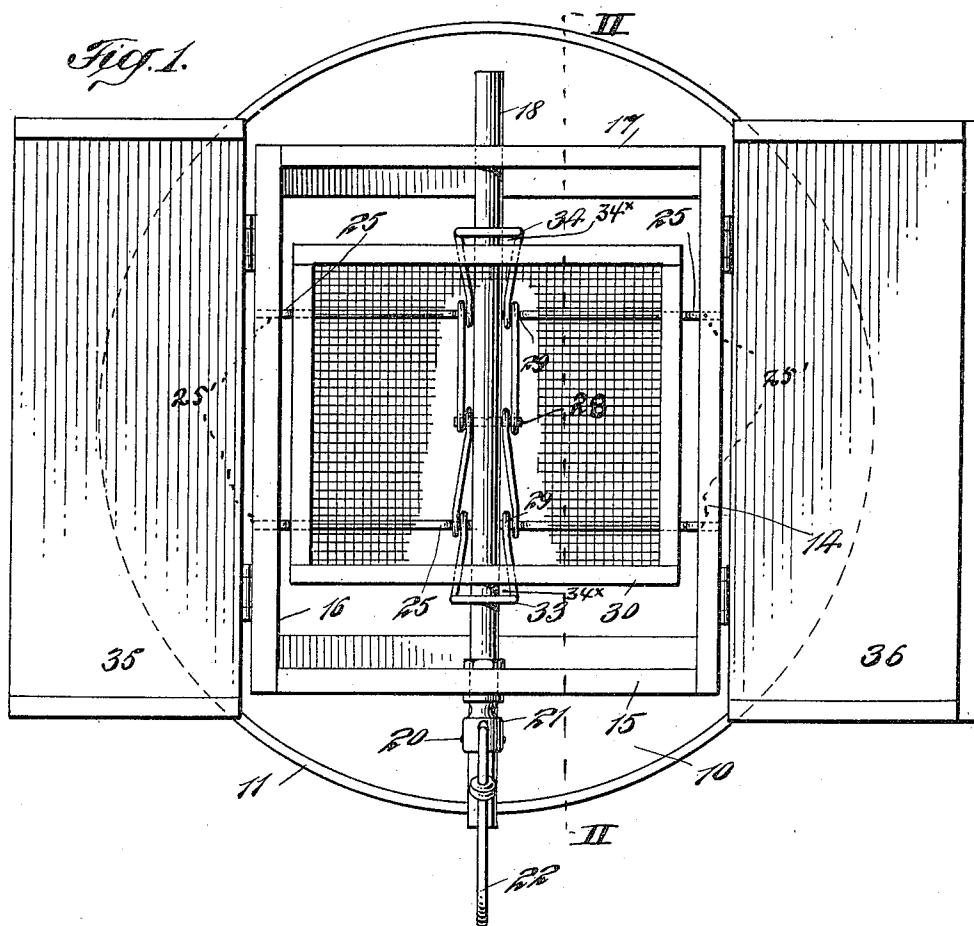


C. F. NOLTE.
ASH SIFTER.
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962,661.

Patented June 28, 1910.



Witnesses:
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UNITED STATES PATENT OFFICE.

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ASH-SIFTER.

962,661.

Specification of Letters Patent. Patented June 28, 1910.

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To all whom it may concern:

Be it known that I, CHRISTIAN F. NOLTE, a citizen of the United States, and a resident of New York, borough of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Ash-Sifters, of which the following is a full, clear, and exact description.

This invention relates more particularly to that class of ash-sifters which are adapted to be placed upon a barrel or other receptacle and which has an inclosed container for holding and supporting the ashes.

The primary object of the invention is to provide an ash-sifter which will effectually separate the ashes from the coal and which will be so constructed as to be easily and conveniently operated.

Another object of the invention is to provide a dust proof sifter in which the dust arising from the ashes will not leave the receptacle.

With these and other objects in view the invention will be hereinafter more particularly described, with reference to the accompanying drawings which form a part of this specification, and will then be pointed out in the claims at the end of the description.

In the drawings, Figure 1 is a top plan view of the device; and Fig. 2 is a sectional view taken on the line II—II of Fig. 1.

10 designates a circular base provided with a depending flange 11, said base being adapted to rest upon a barrel or other receptacle 12, the flange 11 being arranged to retain the same on the barrel. The member 10 is provided with a squared opening 13 and adjacent said opening are the members 14, 15, 16 and 17 which form a substantially rectangular box or frame. A shaft 18 extends through the members 15 and 17 and is adapted to reciprocate. The means for reciprocating said shaft consists of the member 19 which is pivotally secured at 20 to a support 21. A portion of this member is adapted to form a handle 22, and the end portion of said member is adapted to enter a conical opening 23 in the shaft 18. It will therefore be seen that as the handle 22 is raised and lowered on its pivot 20 the rod 18 will be reciprocated, said shaft being provided with a pin 24 which will limit the movement of said shaft.

A pair of substantially U-shaped members 25 are pivotally swung from the side walls 14 and 16 of the box being pivoted to the side

walls at 25', and to each of these members is pivotally secured supporting devices 26 and 27, said supporting devices consisting of a wire member, the free ends of which are coiled about a pin 28 which extends transversely through the shaft 18, the central portion of said member being coiled around the member 25 at the points 29, the other end of said members being upturned to support the side walls of a sifter 30. It will therefore be seen that as the shaft 18 is reciprocated the members 25 will be swung on their pivots through the medium of the links or supports 26 and 27. It will also be noted that as the members 25 are rocked the portions 31 and 32 will also be given a rocking motion, that is when the sifter approaches the wall 15, the portion 32 will be raised and the portion 31 lowered. In this manner the constant reciprocation of the shaft will impart a rocking motion to the sifter 30 which is adapted to rest upon the members 31 and 32. As the shaft 18 is reciprocated the sifter 30 will not only be rocked but the same will travel with the shaft and the two motions combined will agitate the contents of the sifter to such an extent that the same will be thoroughly sifted and the finer particles will drop within the barrel 12. It will be noted that when the device is in the position shown in the drawing the sifter 30 will rest not only upon the portions 31 and 32 of the members 26 and 27 but the same will also be supported by the members 25. The bent up portions 33 and 34 will prevent the sifter from leaving the members 25, 31 and 32 but at the same time there will be sufficient play between the side walls of the sifter and the members 33 and 34 as at 34* to allow said sifter to move freely upon the portions 31 and 32 of the members 26 and 27. The arrangement of the various parts is such that the same may be repaired and replaced with very little trouble and it will be seen that this arrangement produces a neat and compact structure which will be economical to manufacture.

The device may be cheaply constructed of wood or the same may be formed of sheet metal.

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

1. A device of the class described, comprising a base member adapted to support

a receptacle, a sifter located within said receptacle and a shaft adapted to reciprocate within the receptacle, rocking means pivoted to said shaft adapted to loosely support said sifter whereby on the reciprocation of said shaft a longitudinal and a rocking motion is imparted to said sifter.

2. A device of the class described, comprising a base member adapted to support a receptacle, members pivoted to the side walls of said receptacle, a sifter loosely supported on said members within said receptacle, and means for swinging said members on their pivots and thereby imparting a longitudinal and rocking movement to said sifter.

3. A device of the class described, comprising a base member, said base member being provided with a squared opening, a rectangular receptacle adapted to inclose said opening, a shaft extending through the walls of said receptacle, a sifter, rocking means pivoted to said shaft and provided with upturned end portions supporting the sifter within the receptacle, said sifter being of a size somewhat less than the space between said upturned portions, whereby on the reciprocation of the shaft a longitudinal rocking movement is imparted to said sifter, and means pivotally connected to a wall of the receptacle for reciprocating said shaft.

4. A device of the class described, comprising a base member provided with a squared opening, a rectangular frame supported by said member, a shaft adapted to reciprocate in said frame, a plurality of members pivotally secured to the inner side walls of said frame, said members being adapted to loosely support a sifter, and said shaft being adapted to move said members on their pivots and thereby impart a rocking and longitudinal movement to said sifter.

5. A device of the class described, comprising a circular base member, a receptacle located thereon, a shaft adapted to reciprocate within said receptacle, a sifter, members adapted to support said sifter pivotally connected to the side walls of said receptacle, a pin passing through the central portion of said shaft, and members formed of wire, the central portion of said members being coiled upon said pivoted members, the free

ends of said members being secured to said pin, the other ends of said members terminating in a means for supporting the edge portions of the sifter.

6. A device of the class described, comprising a base member, a rectangular frame located upon said base member, a shaft adapted to reciprocate within said frame, members pivoted to the side walls of said frame, a pin passing through the central portion of said shaft each of said pivoted members being provided with a link adapted to connect the same with said pin, a sifter, said links and said pivoted members being adapted to support the sifter.

7. A device of the class described, comprising a base member, a rectangular frame formed upon said base member, a pair of U-shaped members pivotally hung within the said frame member, a shaft adapted to reciprocate within said frame, members pivotally connecting said pivoted members to said shaft, said members being formed with up-turned end portions 33 and 34, a sifter loosely mounted on said U-shaped members between said up-turned portions, said sifter being of a size somewhat less than the space between said up-turned portions, and means located upon said frame for reciprocating the shaft.

8. A device of the class described, comprising a base member, a rectangular frame located upon said base member, members adapted to form a closure for said frame, said members being hingedly connected to the side walls thereof, a shaft adapted to reciprocate within said frame, a pair of U-shaped members pivotally connected to the side walls of said frame, a connecting member, a pin passing through said shaft and through a coil portion of said connecting member, said member also provided with portions thereof coiled about said U-shaped members and having up-turned end portions, a sifter loosely supported on said U-shaped member between the upturned ends of said connecting member, and means for reciprocating said shaft.

This specification signed and witnessed this 29th day of January A. D. 1910.

CHRISTIAN F. NOLTE.

Witnesses:

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