

No. 624,965.

Patented May 16, 1899.

C. H. OESTER.
CLEANER FOR SIFTER DRUMS.

(Application filed June 7, 1898.)

(No Model.)

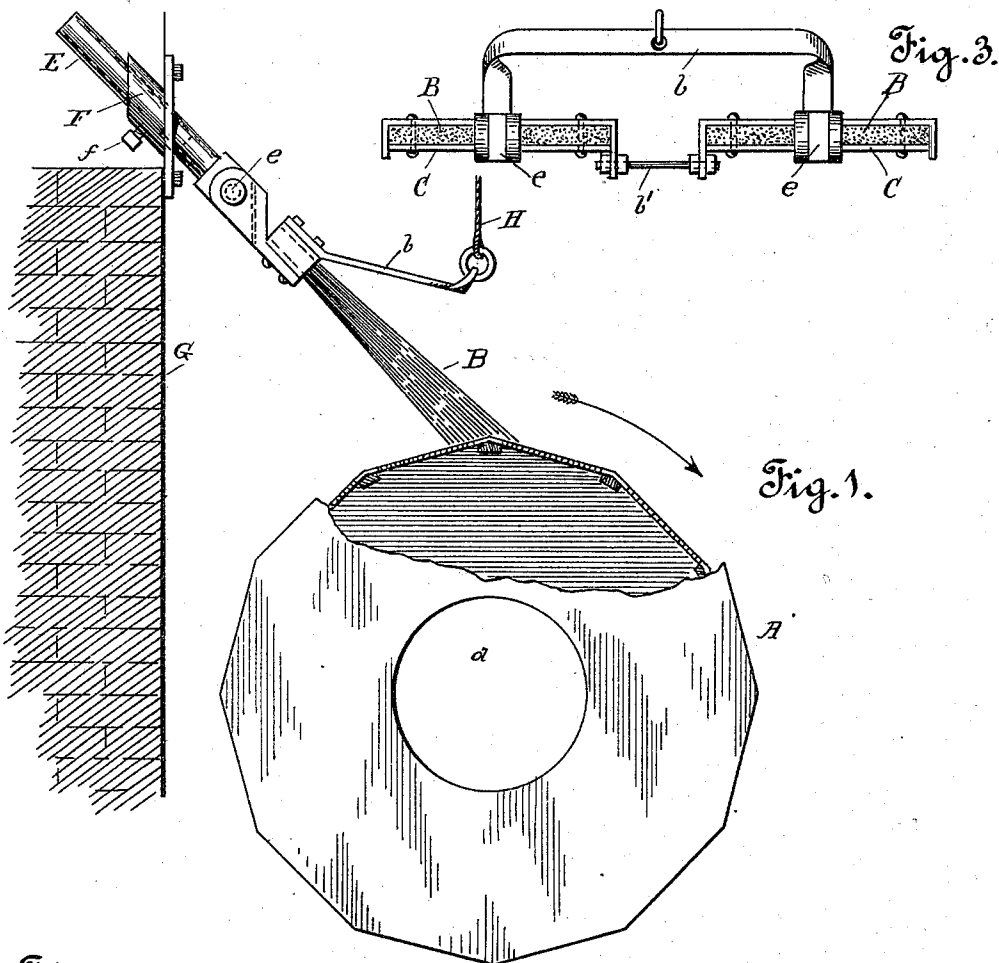
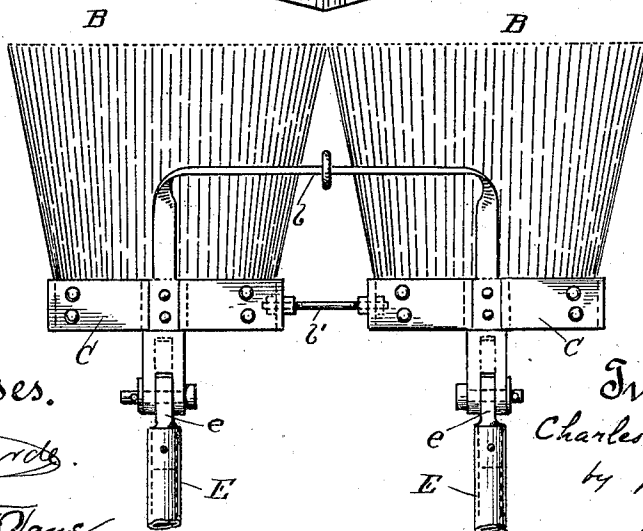


Fig. 2.



Witnesses.

Stellvertende

Walter A. Davis

Inventor.

Charles Henry Oester,
by Wm F. Booth,
his Attorney.

UNITED STATES PATENT OFFICE.

CHARLES HENRY OESTER, OF SAN FRANCISCO, CALIFORNIA.

CLEANER FOR SIFTER-DRUMS.

SPECIFICATION forming part of Letters Patent No. 624,965, dated May 16, 1899.

Application filed June 7, 1898. Serial No. 682,810. (No model.)

To all whom it may concern:

Be it known that I, CHARLES HENRY OESTER, a citizen of the United States, residing in the city and county of San Francisco, in the State of California, have invented certain new and useful Improvements in Cleaners for Sifter-Drums; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to cleaners for sifter-drums which, though applicable to drums, reels, and bolts in flour and other mills, are especially for those drums or cylinders used in sugar-refineries for separating the pulverized sugar from the coarser stuff.

My invention consists in the brooms and the novel means for mounting and adjusting them, which I shall hereinafter fully describe by reference to the accompanying drawings, in which—

Figure 1 is an end view showing the application of my cleaner-broom to a sifter-drum. Fig. 2 is a view showing a connected pair of the brooms. Fig. 3 is a head end view of the brooms.

In sugar-refineries the material to be sifted is led down from the drier on a floor above through suitable conduits to one end of the rotating sifter-drum A through the receiving-aperture *a*, in which it is delivered to the interior. The pulverized sugar sifts through the meshes of the periphery of the drum, while the coarser stuff passes through the whole length of the drum and is discharged from the other end. It is necessary to keep the meshes of the drums clear, and for this purpose men are usually stationed at the drums with brooms, with which they sweep the screens. Instead of this manual labor I have brooms B, held to the drums by means enabling them to be adjusted to their work and to be lifted out of the way when necessary. There may be as many of these brooms to each cylinder as may be required, their width depending upon the length of the cylinder—as, for example, for an eighty-inch screen or drum I propose to have four brooms each twenty inches wide. These may be independent of each other; but the better construction is to have them connected in pairs by a yoke *b* and a tie-bolt *b'*, as I show in

Figs. 2 and 3. Each broom has a clamp C, by which its head is held. To these clamps is secured the tie-yoke *b*. To each clamp is also connected a handle or stem E, preferably in the form of a pipe. The connection is an adjustable one, consisting of a hinge at *e*, formed of a male and female coupling, as shown in Figs. 1 and 2, whereby the broom may rest at the proper angle to cause its working edge to fit the sifter-surface with accuracy. The broom is carried by its stem or handle being fitted through a thimble or socket F in the wall G, and in this socket it is set at the proper angle and it can be adjusted downwardly to its work or withdrawn therefrom by simply slipping the handle in the socket and holding it in fixed position by a set-screw *f*.

Now in order to lift a pair of brooms I have a suitable lifting-rope H, Fig. 1, connected with the yoke *b*, and by this rope I can at any time lift the brooms from the drums.

The brooms may be taken out and repaired or replaced by others by slipping their stems from the sockets F. By these brooms the sifter-drums will be kept clean, and the brooms are so mounted that they can be accurately set and held in place and removed when required.

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

1. In combination with a sifter-drum, a broom, a handle or stem therefor having a hinge connection with said broom, a socket, means for securing said handle adjustably in said socket, and means for lifting said broom from the drum, substantially as described.

2. In combination with a sifter-drum, a broom, a clamp therefor, a handle secured to said clamp and provided with a hinge-joint to permit of the broom being lifted from the drum, a fixed socket, means for adjustably securing said handle in said socket, and means for lifting said broom, substantially as described.

In witness whereof I have hereunto set my hand.

CHARLES HENRY OESTER.

Witnesses:

WALTER F. VANE,
D. B. RICHARDS.

DISCLAIMER.

624,965.—*Charles Henry Oester*, San Francisco, California. CLEANER FOR SIFTER-DRUMS. Patent dated May 16, 1899. Disclaimer filed December 14, 1904, by the patentee.

Enters his disclaimer as follows, to wit:

"In so far as the claims of said Letters Patent appear to cover, or may be construed to cover, a device in which the brooms are arranged vertically or perpendicularly to the periphery of the sifter-drum, said claims are too broad, and your petitioner hereby disclaims such arrangement as being within the scope of his invention, and limits his said claims and each of them to a device in which the brooms are arranged slantingly or at an angle, other than a right angle, to the periphery of the sifter-drum, as shown in Figure 1 of said Letters Patent."—[*Official Gazette, December 20, 1904.*]