

W. HAWES.
Oil-Cake Strippers.

No. 134,429.

Fig. 1.

Patented Dec. 31, 1872.

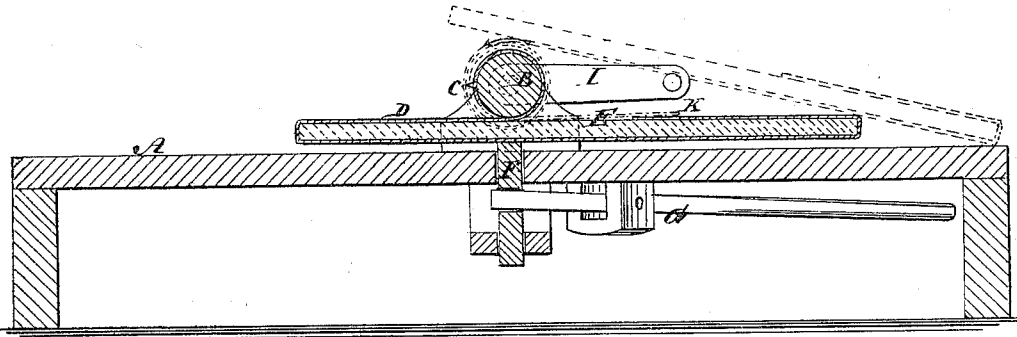
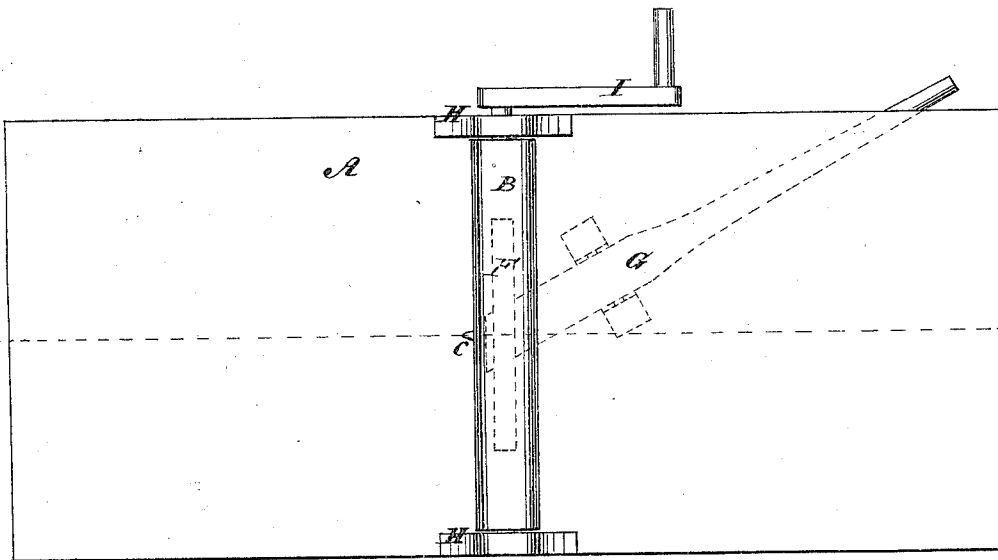


Fig. 2



Witnesses:

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UNITED STATES PATENT OFFICE

WASHINGTON HAWES, OF PORT RICHMOND, NEW YORK.

IMPROVEMENT IN OIL-CAKE STRIPPERS.

Specification forming part of Letters Patent No. 134,429, dated December 31, 1872.

To all whom it may concern:

Be it known that I, WASHINGTON HAWES, of Port Richmond, in the county of Richmond and State of New York, have invented a new and Improved Oil-Cake Stripper, of which the following is a specification:

My invention consists of a revolving cylinder with one or more hooks or points in its surface combined with a table, whereon the oil-cake to be stripped of its cloth covering is placed under the cylinder in such manner that one end of the cloth-cover is hooked up by pins on the cylinder, and attached to it so that the revolution causes the cloth to be wound on it and stripped from the cake, which is first moved from under the roller and then over it and partly under it again, in such manner that the cloth which is wrapped over the cake endwise will be unwrapped from both sides and the ends, and the cake delivered upon the table, to be removed. The motion of the cylinder then ceases, and the cloth is pulled off by hand, the cylinder being revolved by pulling the cloth. An elevating device is also combined with the table for use, if necessary, in pressing the cake upon the roller, to cause the pins to engage the cloth. The roller may be arranged to move down against the cloth for this purpose, and the lever dispensed with; or one end of the cake may be held up by hand to the roller by the attendant who presents the cake to be stripped.

Figure 1 is a longitudinal sectional elevation of my improved stripper. Fig. 2 is a plan view.

Similar letters of reference indicate corresponding parts.

A is a table; B, a stripping-roller; C, a hook or point on the roller for engaging the cloth. D is a cloth wrapper, in which the oil-cake E is wrapped when it comes from the press in which it is formed. F is a lifter for raising the cake up to the roller. G is a lever for working the lifter. The roller is mounted in bearings H above the table, a little higher than the thickness of the cake, and has a crank, I, or any other suitable means for turning it.

The oil-meal being spread in a long wide mass is wrapped in a strong cloth cover in the manner indicated by the dotted lines E, represented in Fig. 1. It is then subjected to a very powerful press for expressing the oil and forming the cake; this causes the cover to adhere very strongly to the pressed cake, so that it is very difficult to strip or pull it off by hand, by which it has been done entirely up to this time. I propose to remove the covers by power, and therefore employ a stripping-roller and table, as here shown, presenting the oil-cake between the roller and the table, so that the pins of the roller engage that end of the cloth which is uppermost where the two ends meet and overlap, as indicated by dotted lines k, Fig. 1. As soon as the cloth is so engaged it winds on the roller, drawing the cake along the table, say to the right, until the end of the cake is reached; then it rises to the top of the roller and moves back to the left till the other end passes over the roller and falls to the table again; then the cake is drawn under the roller, moving to the right until the cloth is wholly wound on the roller and stripped from the cake. The cake is then removed by hand, the roller is thrown out of the gear, and the cloth pulled off the roller. This completes the operation.

Nippers or other equivalent devices for engaging the cloth may be used instead of the hooks or points, if preferred.

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

1. The combination of the stripping-roller and the table, the roller being provided with hooks or points and relatively arranged with the table, to be adapted for stripping the covers from oil-cake, substantially in the manner herein described.

2. The combination of an elevator or lifter with the stripping-roller and table, substantially as specified.

WASHINGTON HAWES.

Witnesses:

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