

(No Model.)

J. N. KAILOR.
SCREEN SHOE FOR CLOVER HULLERS.

No. 500,136.

Patented June 27, 1893.

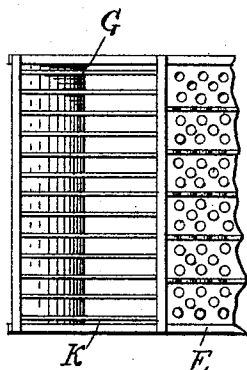


Fig. 2.

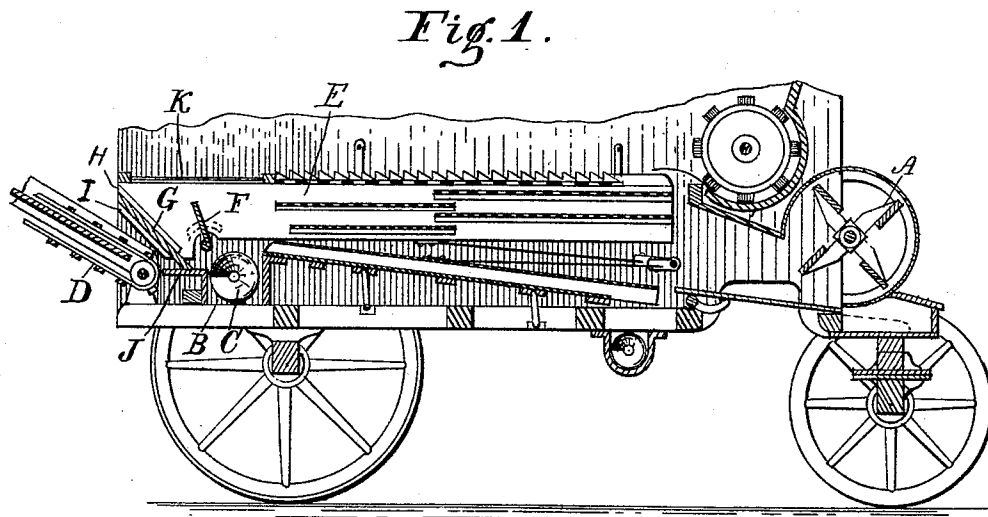


Fig. 1.

WITNESSES:

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JOHN N. KAILOR, OF COLUMBUS, INDIANA, ASSIGNOR TO REEVES & CO., OF
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SCREEN-SHOE FOR CLOVER-HULLERS.

SPECIFICATION forming part of Letters Patent No. 500,136, dated June 27, 1893.

Application filed January 23, 1893. Serial No. 459,422. (No model.)

To all whom it may concern:

Be it known that I, JOHN N. KAILOR, a citizen of the United States, residing at Columbus, in the county of Bartholomew and State of Indiana, have invented a new and useful Improvement in Screen-Shoe for Clover-Hullers, of which the following is a specification.

My invention relates to an improvement in the vibrating-shoe which carries the separating-screens in a clover-hulling machine.

The object of my improvement is, to save and to direct into the tailings-troughs, seeds which have heretofore been blown out and lost.

The accompanying drawings illustrate my invention.

Figure 1 represents a vertical longitudinal section of the lower part of a clover-hulling machine having my improvement. Fig. 2 represents a plan of the rear portion of the screen-shoe.

In the drawings, A, indicates the blast-fan of the clover-huller; B the tailings-troughs; C the conveyer mounted therein, and D the endless-belt carrier on which the stems and refuse are discharged. The vibrating screen-shoe, E, is hung in the body of the machine in the path of the blast from the fan A, in the usual well known manner.

The current of air from the blast-fan, after passing the screens, is intercepted and deflected to accommodate the condition of the stock, by means of the adjustable blast-board, F. Heretofore, seeds passing the blast-board F have been thrown out onto the carrier with the chaff, and have been lost. For the purpose of saving these seeds, I extend the sides of the shoe rearward beyond the blast-board a sufficient distance to receive between the extended sides the inclined end-board, G, which is mounted, preferably, between cleats, H, and I, secured to the inner sides of the extended ends of the screen-shoe, so as to be withdrawn when occasion requires. The lower edge of the end-board G rests upon a shelf, J, secured in the body of the machine at the rear of the tailings-trough and communicating therewith at the front edge of the

shelf, so that, as the shoe vibrates longitudinally, the lower edge of board G slides back and forth upon the shelf J and scrapes whatever may have accumulated thereon into the tailings-trough.

For the purpose of conveying the stems which pass from the uppermost screen in the screen-shoe over the extended portion of the shoe, I provide a removable open grating, K, which rests upon the upper edges of the extended portion of the shoe.

In operation, the blast of air passing from the screens of the screen-shoe, and carrying such of the seeds as have failed to pass through the screens, is deflected upward by the adjustable blast-board, F, thus forming a partial vacuum or eddy at the rear of the blast-board, into which the seeds fall, and, falling upon the inclined end-board G, slide downward to the shelf J, and are, by the vibratory action of the shoe and the scraping movement of the end-board upon the shelf, delivered into the tailings-trough, from which they are carried, with the unthrashed clover-heads, by the conveyer C to the tailings-elevator, (not shown) in the usual manner.

I claim as my invention—

In a clover-huller having a blast-fan, a tailings-trough, and a blast-board arranged above and at the rear of the tailings-trough so as to deflect the current of air from the blast-fan, the combination with said fan, tailings-trough and blast-board, of the shelf arranged at the rear of and communicating with the tailings-trough, the vibrating screen-shoe arranged in the path of the blast from the fan and having its sides extended beyond and at the rear of the blast-board, and the inclined end-board mounted between the extended sides of the screen-shoe and resting upon said shelf, whereby the seeds passing the blast-board are caught upon the end-board and delivered to the tailings-trough, substantially as set forth.

JOHN N. KAILOR.

Witnesses:

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