

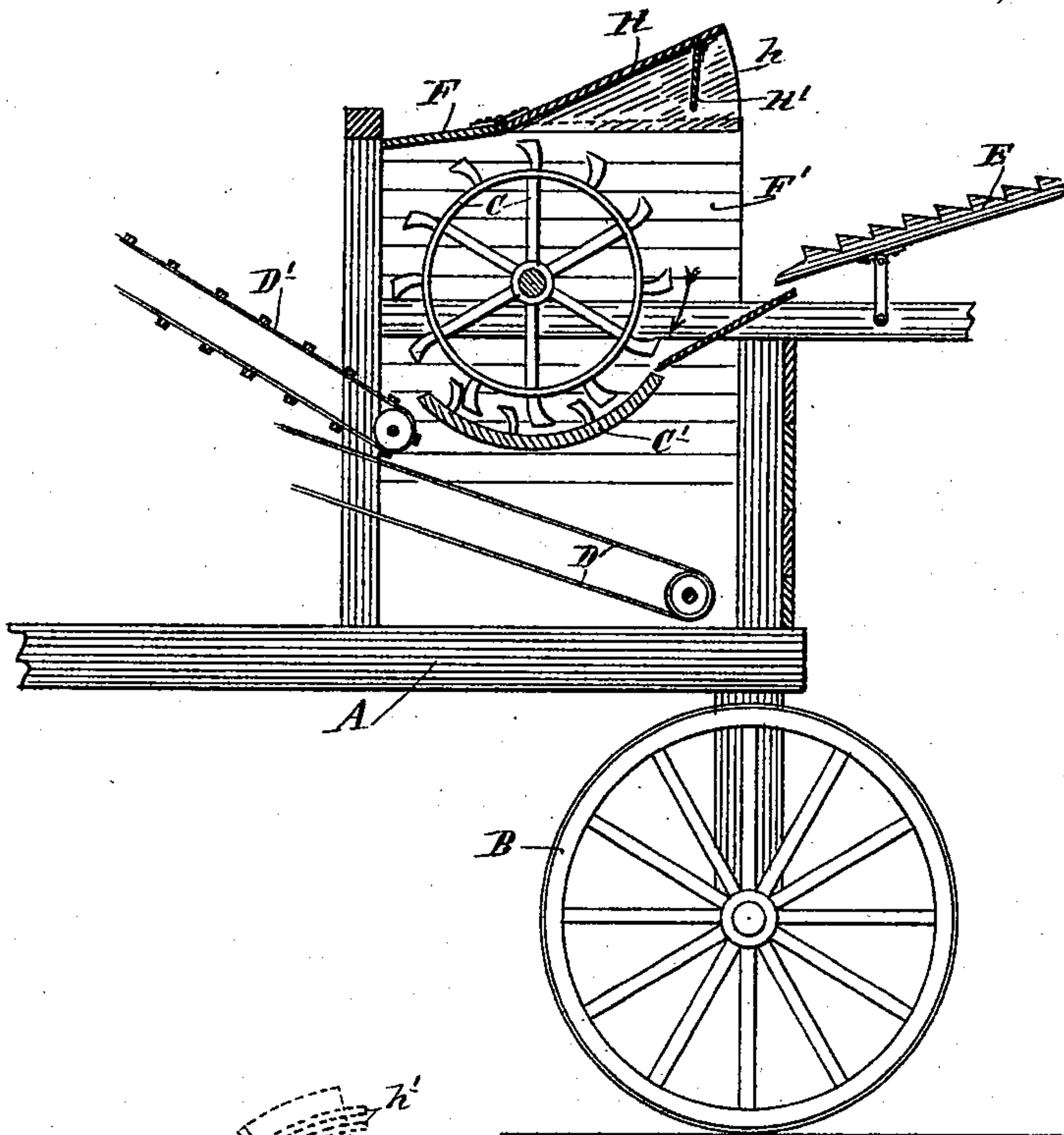
(No Model.)

E. G. SACHSE.  
CYLINDER HOOD FOR THRASHING MACHINES.

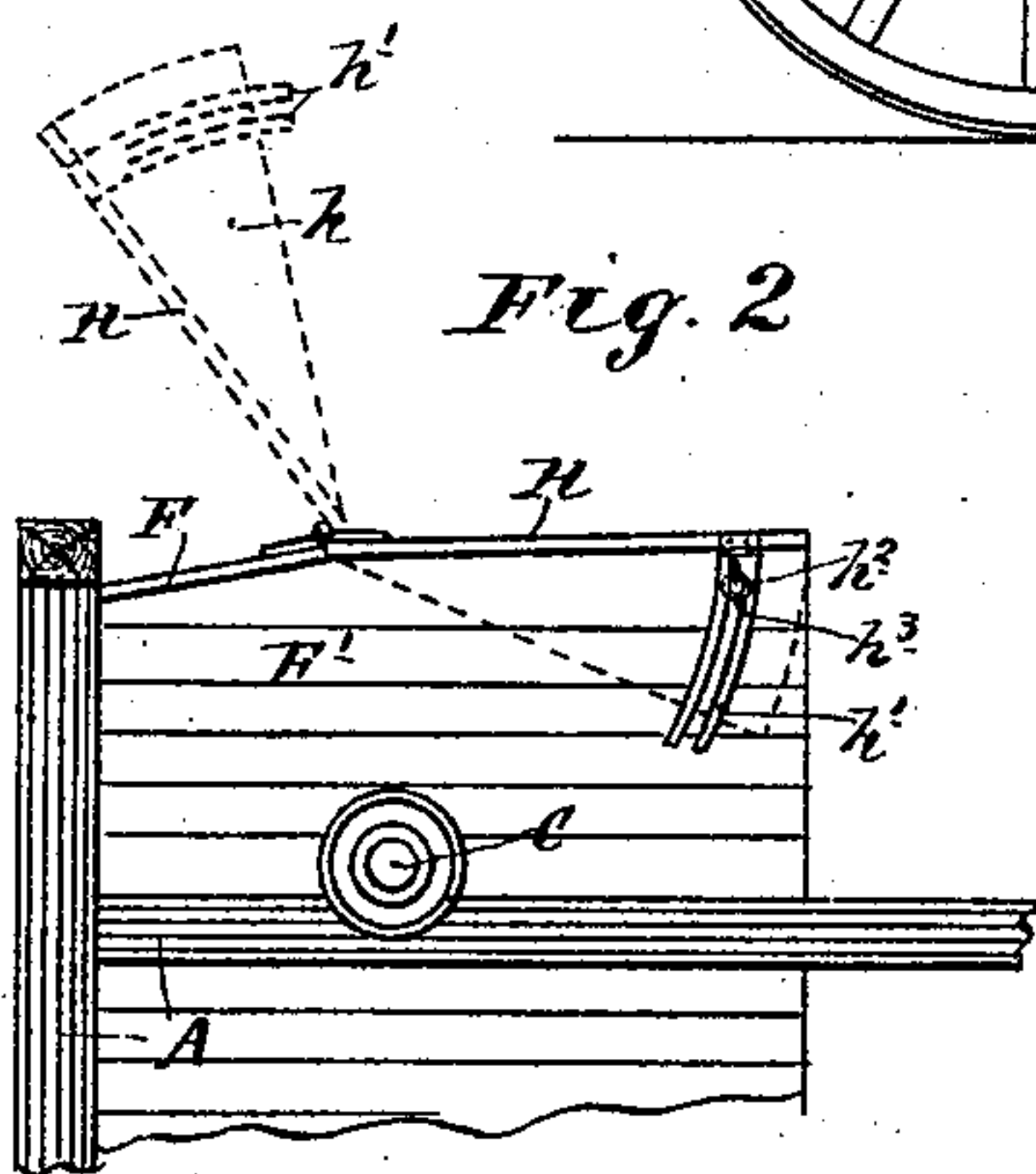
No. 506,444.

Patented Oct. 10, 1893.

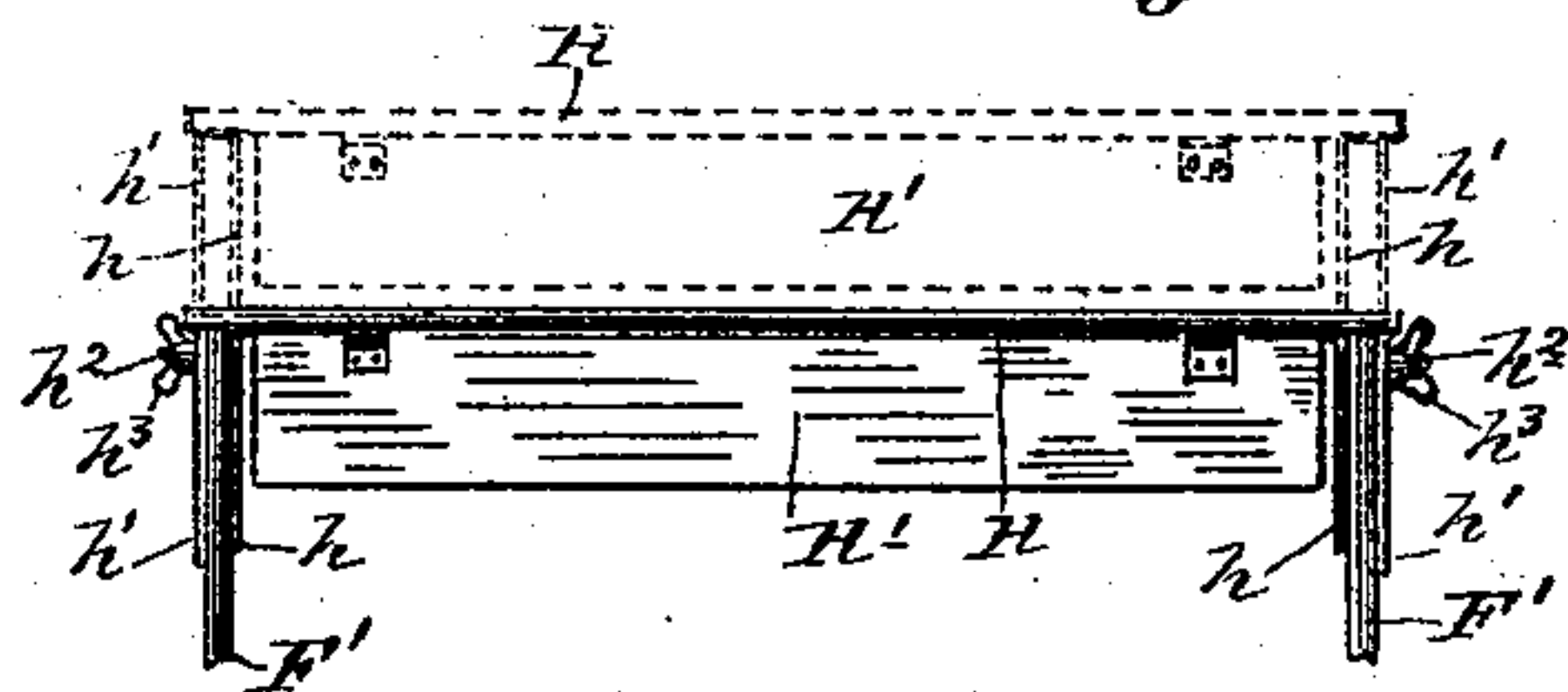
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses.  
A. H. Opsahl.  
Frank Merchant.

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By his Attorney.  
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# UNITED STATES PATENT OFFICE.

ERNEST G. SACHSE, OF AUSTIN, MINNESOTA.

## CYLINDER-HOOD FOR THRASHING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 506,444, dated October 10, 1893.

Application filed January 6, 1893. Serial No. 457,505. (No model.)

*To all whom it may concern:*

Be it known that I, ERNEST G. SACHSE, a citizen of the United States, residing at Austin, in the county of Mower and State of Minnesota, have invented certain new and useful Improvements in Cylinder-Hoods for Thrashing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to thrashing machines; and has for its object to provide an improvement in cylinder-hoods, adapted for convenient use on thrashing machines, employing automatic band-cutters and feeders.

To this end, the invention consists in certain novel devices and combinations of devices, which will be hereinafter fully described and defined in the claims.

My invention is illustrated in the accompanying drawings, in which like letters refer to like parts.

Figure 1 is a vertical section through the front part of a thrashing machine separator, some parts being broken away; and others removed. Fig. 2 is a left side elevation of a part of the separator frame; and Fig. 3 is a front elevation of some of the parts shown in Fig. 2.

A represents the main frame, B one of the supporting truck-wheels, C the thrashing cylinder, C' the concave, D the grain-belt or apron, and D' one of the separating carriers of an ordinary standard thrashing machine.

E represents the feed-table, over which, not shown, would be located the feed-cylinder or other self-feeding mechanism of an automatic band-cutter and feeder.

F is the fixed section of the deck over the thrashing cylinder, and H represents the pivoted or hood section, constructed in accordance with my invention. This pivoted hood H, instead of being of the ordinary construction, consisting of a single flat lid-like leaf, is provided at its side margins, with downwardly extended triangular flanges *h*, which work inside of the side plates F' of the frame and serve to form an extensible section thereof, the said flanges and side plates of the frame working together, with a telescoping action. The hood also carries, at its outer

corners, spaced apart from the flanges *h*, a pair of slotted spring-arms *h'*, which work outside the side plates of the frames and over a screw-threaded clamping bolt *h<sup>2</sup>*, fixed in the side plate of the frame, with which bolt co-operates a thumb-nut *h<sup>3</sup>*, to secure the hood in whatever position it may be set. The hood H also carries between the side flanges *h* and near its forward end, a pivoted drop H'.

The operation or usage of the device is obvious. When in its lowermost position, the hood will appear, as shown in full lines in Figs. 2 and 3. Whenever so desired, it may be adjusted into other positions, such as shown in full lines in Fig. 1, or as shown in dotted lines in Fig. 3, and be there secured by the clamping bolt and nut *h<sup>2</sup> h<sup>3</sup>*. These would be its different working positions. When it is desired to get at the cylinder for any purpose, the hood may be thrown back onto the deck, or into any intermediate position, as shown in dotted lines in Fig. 2.

The special necessity for a hood of this kind, arises from the use of automatic band-cutters and feeders, which are now coming into general use. These self feeders require a variable throat or inlet to the thrashing cylinder, according to the character of the stock which is being thrashed. My hood meets this requirement, affording an adjustable throat or mouth to the feed cylinder, without any opening at the sides. The pivoted drop H' is adapted to float on the stock and prevent a back draft or outward movement of the dust. My adjustable hood is also a convenience, in that it adapts any separator for use with different kinds of self-feeders, which vary largely among themselves in construction, and in the position, which the feed mechanism will occupy relative to the feed table and the cylinder throat. The slotted spring-arms *h'*, co-operating with the fixed bolt and thumb-nut, is a convenient construction for holding the hood wherever set. The slot in the spring-arms is open at its lower end, so as to permit the hood to be raised or thrown back entirely away from the bolt.

My device is applicable to any separator frame.

Though especially designed for use with self-feeders, my invention may, of course, be used on hand-fed machines and would be a



serviceable improvement over the pivoted deck-lid now employed.

What I claim, and desire to secure by Letters Patent of the United States, is as follows:

5 1. The combination with the thrashing cylinder and concave, of the cylinder casing having side walls extending substantially to the top level of the cylinder, the pivoted hood H having the downwardly extended flange  
10 h, telescoping with the said side plates of the casing and provided with downwardly extending slotted spring arms h' and working over screw threaded guide bolts h<sup>2</sup> provided with thumb nuts h<sup>3</sup>, whereby the feed throat  
15 to the thrashing cylinder may be varied at will, substantially as described.

2. The combination with the thrashing cylinder and concave, of the cylinder casing

having side walls extending substantially to the top level of the cylinder and provided 20 with the deck F, the pivoted hood H having the downwardly extended triangular flanges h, telescoping with the said side plates of the casing, the slotted spring arms h' carried by the said hood and working over the screw thread- 25 ed bolts h<sup>2</sup> having the thumb nuts h<sup>3</sup>, and the pivoted drop H' carried at the forward end of the said hood, all of the said parts being arranged and operating, substantially as and for the purpose set forth. 30

In testimony whereof I affix my signature in presence of two witnesses.

ERNEST G. SACHSE.

Witnesses:

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