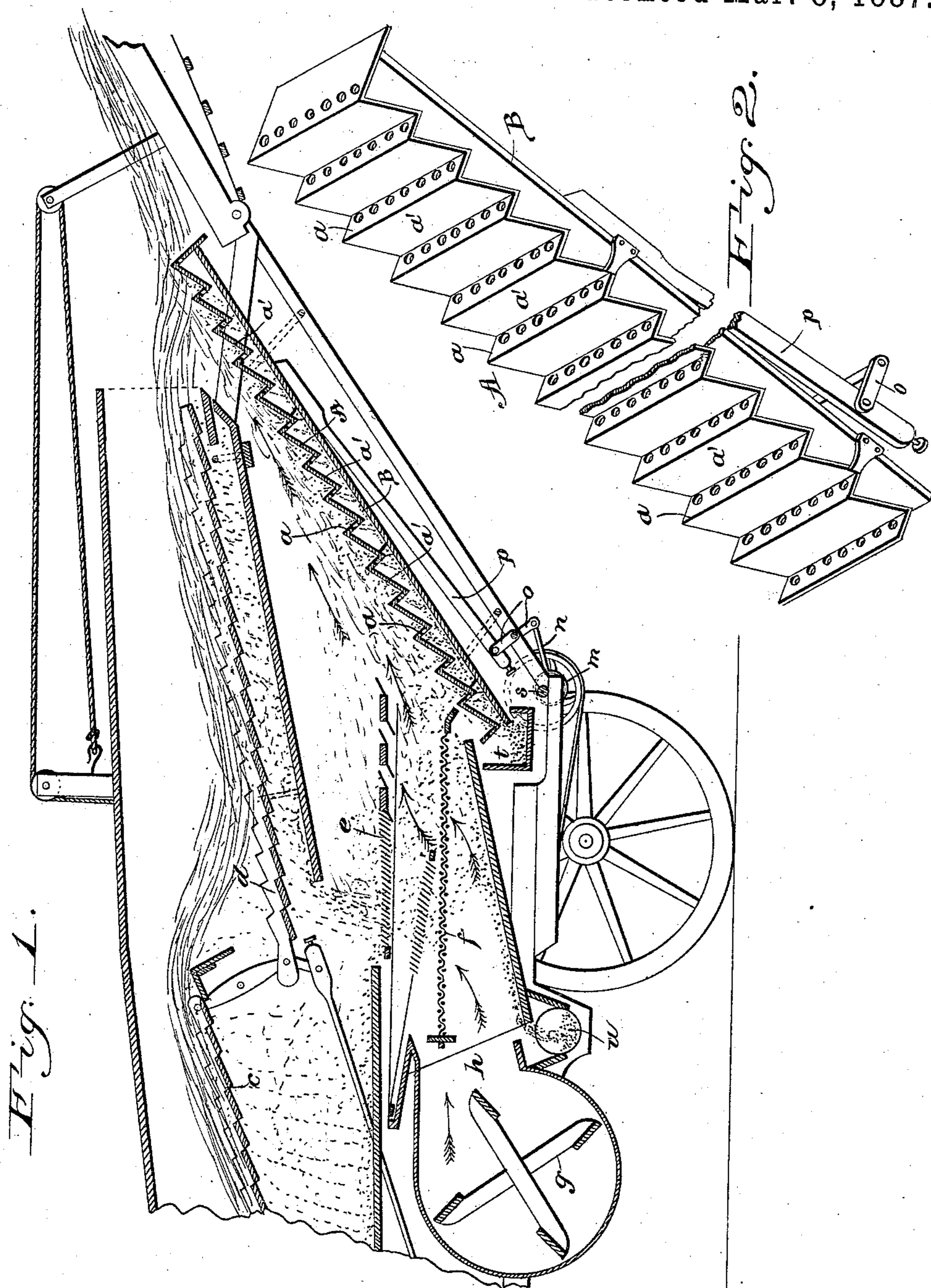


(No Model.)

F. M. CARTER.
THRASHING MACHINE.

No. 358,834.

Patented Mar. 8, 1887.



Witnesses

Rey C. Bowen.
E. G. Siggers

Inventor,

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By his Attorneys
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UNITED STATES PATENT OFFICE.

FRANKLIN MASON CARTER, OF HULL PRAIRIE, OHIO.

THRASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 358,834, dated March 8, 1887.

Application filed July 24, 1886. Serial No. 209,034. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN MASON CARTER, a citizen of the United States, residing at Hull Prairie, in the county of Wood and State of Ohio, have invented a new and useful Improvement in Thrashing-Machines, of which the following is a specification.

My invention relates to thrashing-machines; and the object of my invention is to recover all grain or seed which may be blown over to the conveyer by the blast.

To this purpose my invention consists in certain peculiar and novel features of construction and combination of parts as hereinafter described and claimed.

In order that my invention may be fully understood, I will proceed to describe it with reference to the accompanying drawings, in which—

Figure 1 is a vertical longitudinal section of a portion of a thrashing-machine with my improvement applied thereto. Fig. 2 is a detail view of the device embodying my invention in detached condition.

In Fig. 1 of the said drawings, *c*, *d*, *e*, and *f* designate the screens and riddles, and *g* the fan, of a thrashing-machine, while *h* designates the blast-outlet of the same.

My improvement consists in the combination, in a thrashing-machine provided with separating devices, including a fan and case therefor having a blast-outlet, of a frame located obliquely in the path of the blast-outlet, said frame being provided with a series of alternate solid sections and perforated risers and a solid backing, and means for reciprocating said frame.

The frame *A* is provided with perforated risers *a* and solid sections *a'*, interposed between said risers and lying at right angles therewith. Attached to the back of this frame *A* is a solid backing, *B*, as shown. This de-

vice is set obliquely in the discharge-throat or blast-outlet *h* of the thrasher, and is given an endwise reciprocation by means of an eccentric, *m*, connecting-levers *n* *o*, and pitman *p*, arranged as shown, the eccentric *m* being driven by the transverse shaft *s*, which is suitably geared to the fan-shaft or other shaft of the machine. The chaff blown out by the fan strikes against the frame *A*, and the latter, by its oscillating action, causes any grain or seed that may be in the chaff to fall upon the sections *a* and drop through their perforations, from whence such grain or seed rolls down upon the backing-piece *B* to a trough, *t*, and from which it is carried by any suitable tube to the conveyer *u* of the elevator.

It will thus be seen that a large saving of grain or seed, which would otherwise be wasted, is effected. A further advantage of my invention is that when it is applied to a machine having a stacker the foot of the stacker may be set much higher up than could otherwise be done.

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

The combination, in a thrashing-machine provided with separating devices, including a fan and case therefor having a blast-outlet, of a frame located obliquely in the path of the blast-outlet, said frame being provided with a series of alternate solid sections and perforated risers, and a solid backing, *B*, and means for reciprocating said frame, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

FRANKLIN MASON CARTER.

Witnesses:

GEORGE ARNHORST,
PETER J. PITSON.