

(No Model.)

2 Sheets—Sheet 1.

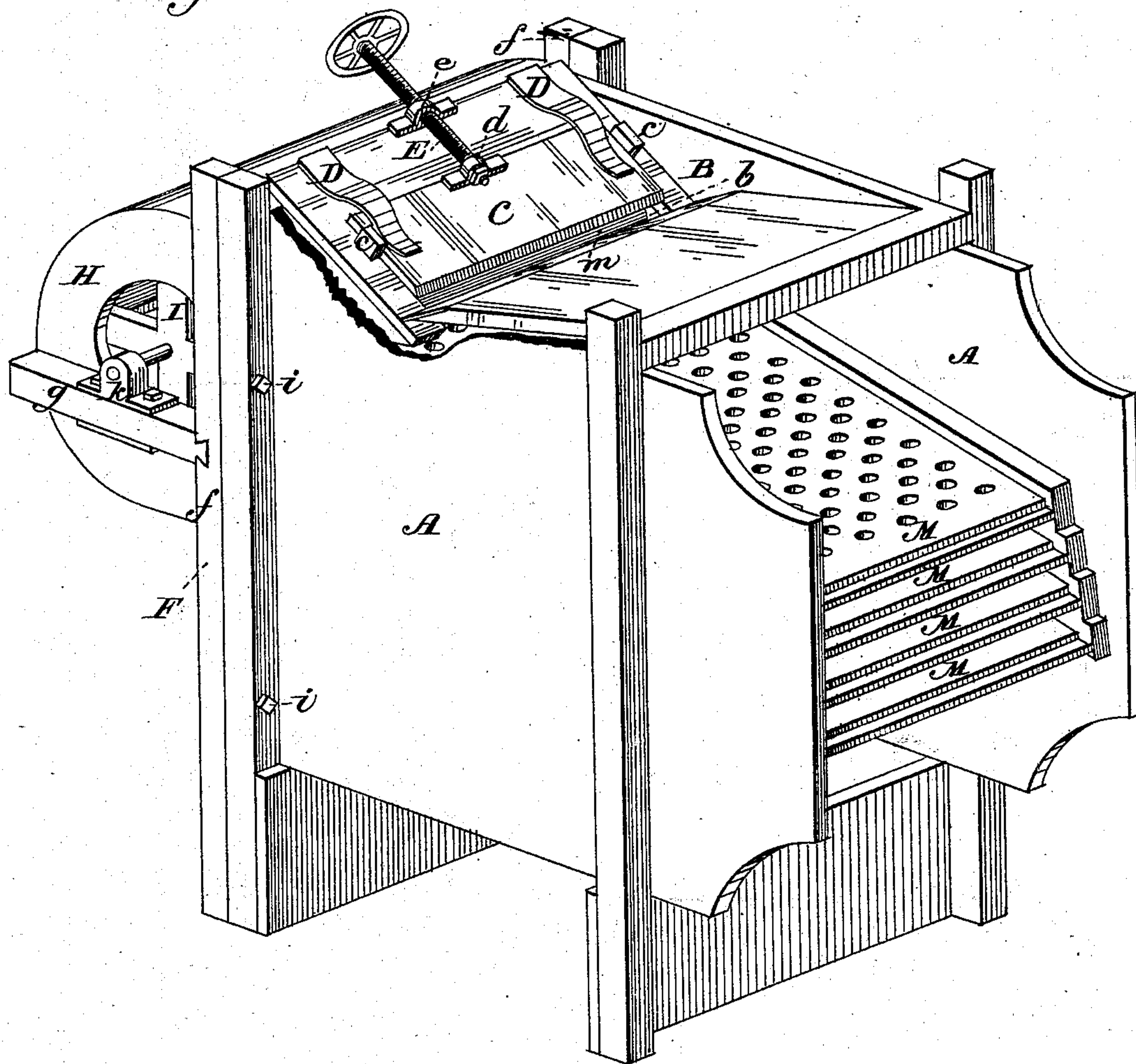
J. ROOT.

HOPPER FOR GRAIN SEPARATORS.

No. 284,333.

Patented Sept. 4, 1883.

Fig. 1.



Witnesses,
Geo. H. Strong.
J. H. House

Inventor
James Root
By *Dr* Dewey & Co.
Attorneys

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2 Sheets—Sheet 2.

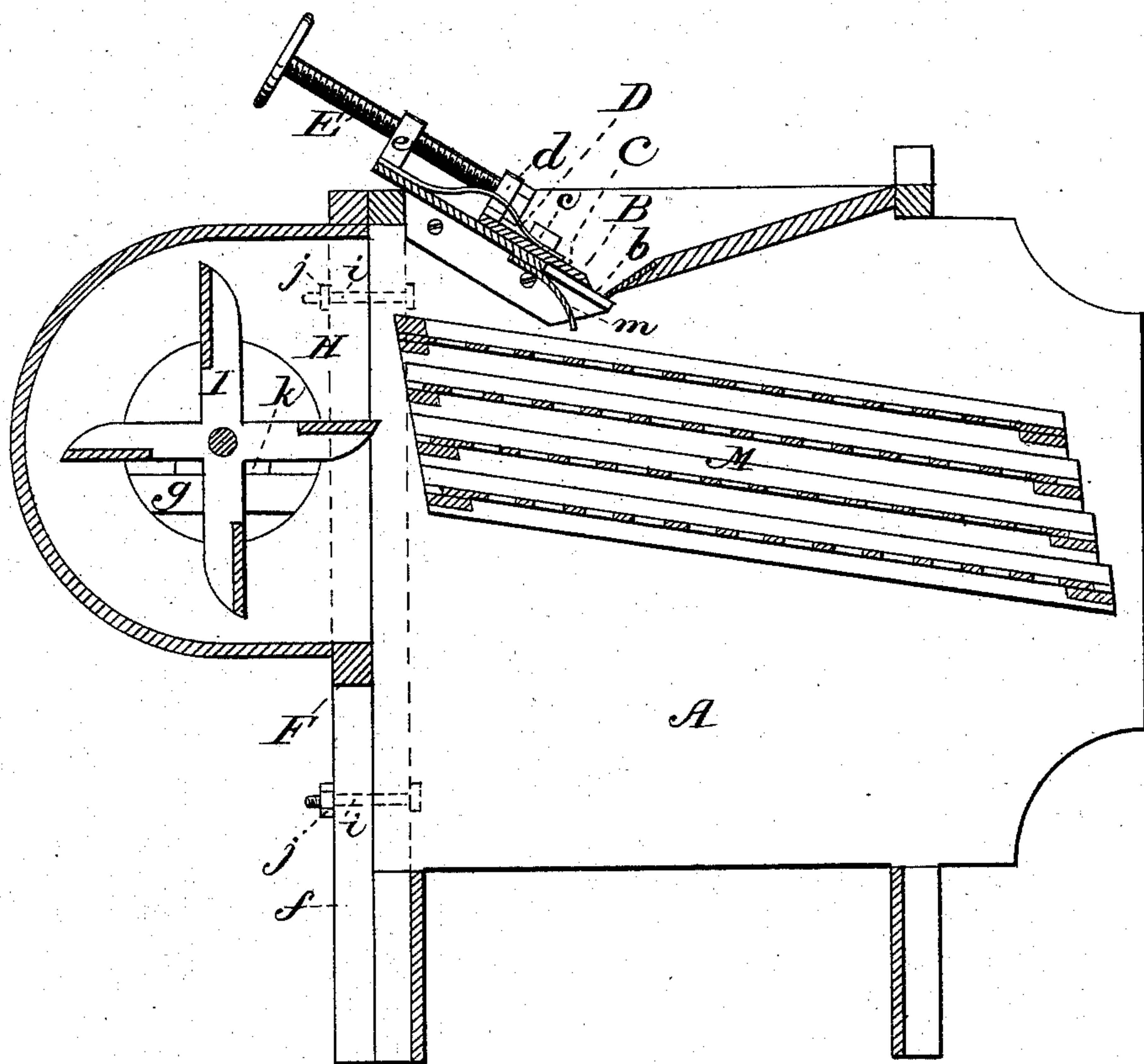
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Fig. 2.



Witnesses,
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Inventor
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UNITED STATES PATENT OFFICE.

JAMES ROOT, OF BLACK'S STATION, CALIFORNIA.

HOPPER FOR GRAIN-SEPARATORS.

SPECIFICATION forming part of Letters Patent No. 284,333, dated September 4, 1883.

Application filed May 29, 1883. (No model.)

To all whom it may concern:

Be it known that I, JAMES ROOT, of Black's Station, county of Yolo, and State of California, have invented an Improvement in Hoppers for Grain-Separators; and I hereby declare the following to be a full, clear, and exact description thereof.

Referring to the accompanying drawings, Figure 1 is a perspective view of my device, a portion of the frame A being broken away. Fig. 2 is a longitudinal section.

A is the frame of the machine, in which are suitably hung the gang of sieves M.

B is the hopper in the top of the frame, having a cross slot or aperture, *b*, in its bottom.

C is a sliding plate resting upon one side of the hopper and guided between lugs *c* thereon. It is held down on the side of the hopper by means of springs D, which thus prevent grain from getting between the sliding plate and the hopper. The top of this plate is provided with a bearing, *d*, in which an adjusting-screw, E, is mounted. This extends up through a stationary nut, *e*, of the hopper. By these means the plate C may be forced down or drawn up to regulate the opening or slot *b*, through which the grain passes to the sieves.

Under the hopper, back of the feed-opening *b*, is a curved directing-plate, *m*, for turning the grain forward on the sieves.

I have not deemed it necessary herein to illustrate the means by which the vibrating motion is imparted to the sieves, as I claim nothing thereon, nor upon the general operation of the machine, confining myself to the means for regulating the feed.

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

In a grain-separator, the frame A and inclosed gang of sieves M, in combination with the hopper B, having a feed aperture or slot, *b*, the sliding regulating-plate C, having a bearing, *d*, springs D, screw E, and stationary nut *e* on the hopper, all arranged and operating substantially as and for the purpose herein described.

In witness whereof I have hereunto set my hand.

JAMES ROOT.

Witnesses:

L. D. STEPHENS,
W. D. HOLSON.