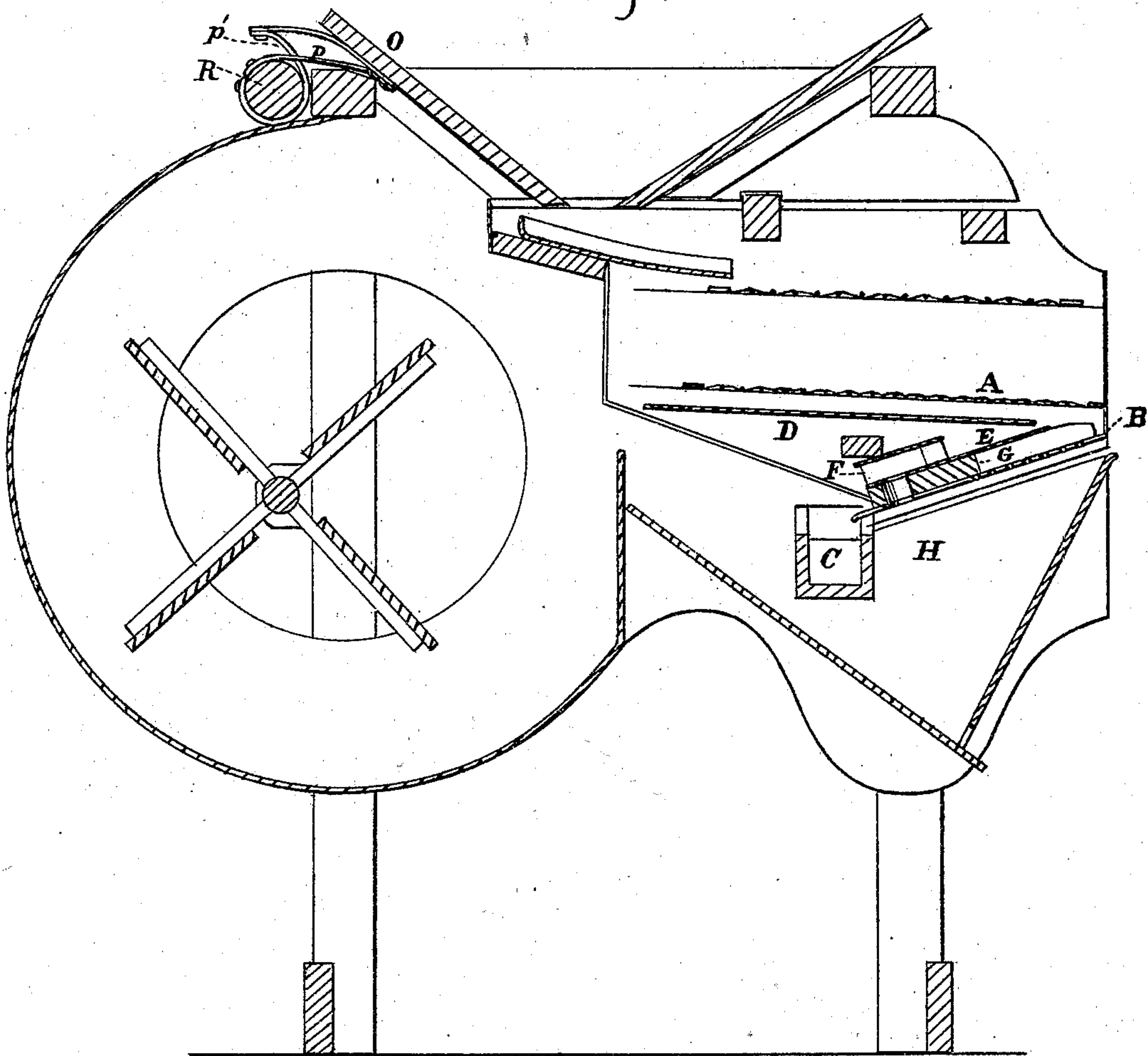


E. M. GILBERT.
Fanning-Mills.

No. 143,506.

Patented Oct. 7, 1873.

Fig. 1.



Witnesses:

Geo H. Howard
H. A. Daniels

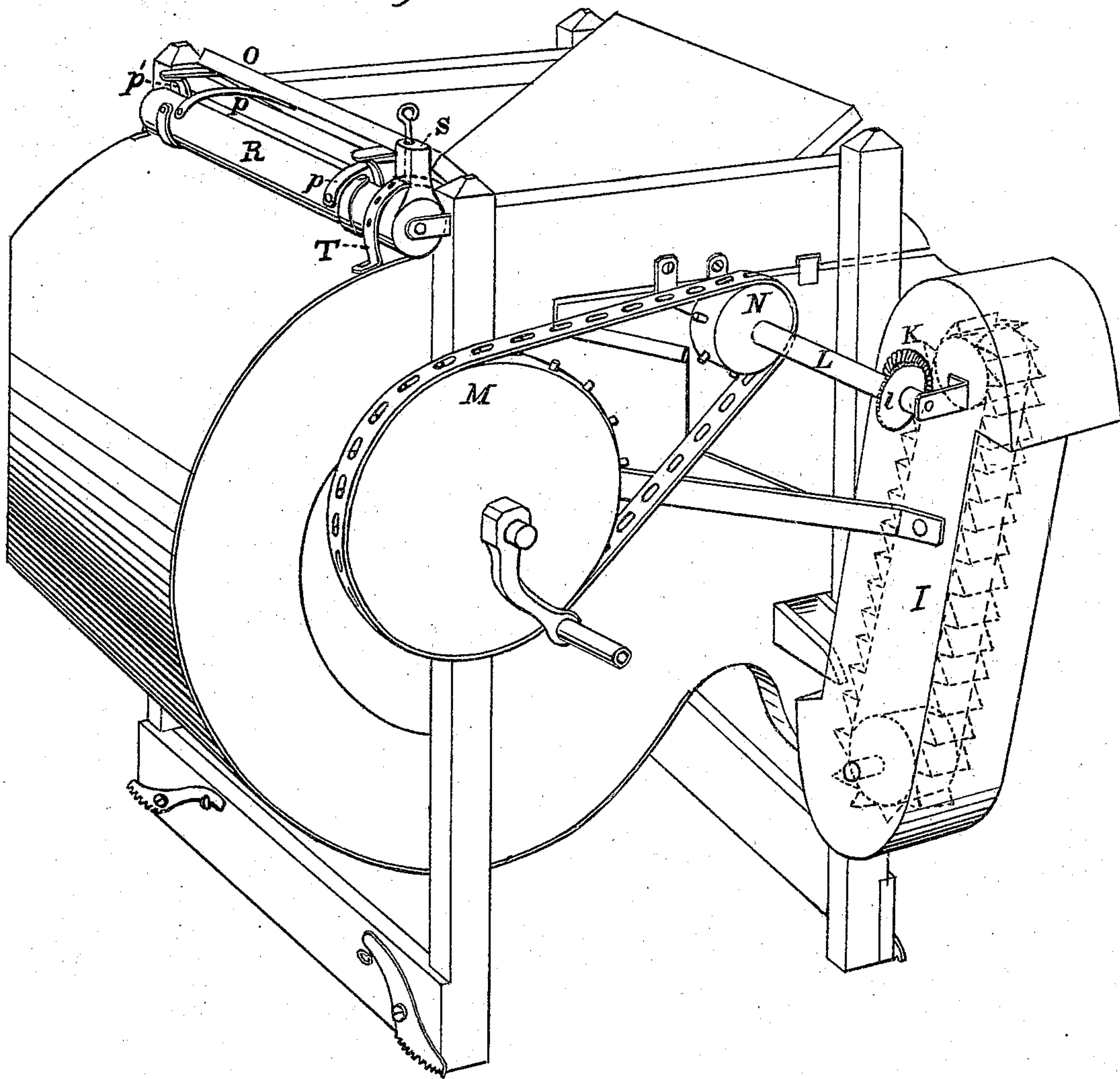
Edward M. Gilbert, Inventor, by
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E. M. GILBERT.
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Patented Oct. 7, 1873.

Fig. 2.



Witnesses:

G. H. Howard
H. A. Daniels

Edward M. Gilbert Inventor, by
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UNITED STATES PATENT OFFICE.

EDWARD M. GILBERT, OF KASSON, MINNESOTA.

IMPROVEMENT IN FANNING-MILLS.

Specification forming part of Letters Patent No. **143,506**, dated October 7, 1873; application filed May 17, 1873.

To all whom it may concern:

Be it known that I, EDWARD M. GILBERT, of Kasson, county of Dodge and State of Minnesota, have invented certain Improvements in Fanning-Mills, of which the following description, taken in connection with the accompanying plate of drawings hereinafter referred to, forms a full and exact specification, wherein are set forth the nature and principles of the invention, by which the same may be distinguished from others of a similar class, together with such parts thereof as are claimed as new and are desired to be secured by Letters Patent of the United States.

My invention relates to fanning-mills, and the nature thereof consists in certain improvements in the details of the construction of the same, hereinafter described and shown.

In the accompanying plate of drawings, in which corresponding parts are designated by similar letters, Figure 1 is a vertical section through the center of the mill. Fig. 2 is a perspective view.

The construction, operation, and relative arrangement of the component parts of my invention are as follows:

In the drawings referred to, A designates the main screen, which is placed under and about two and one-half inches below the sieves, and is inclined toward the rear of the mill. The said screen is about fifteen inches in length, and conveys the grain to the upper end of the second screen B. The screen B inclines toward the front of the mill, and conveys the grain to a trough, C, which empties it out at the side of the mill. The screenings from the said main screen fall upon a board, D, which is directly under it, and by which they are conducted to a second board, E, to which are affixed the pointed division-blocks F, which

guide the screenings through holes in the division-blocks G into the screenings-trough H. The grain passes from the trough C into the elevator I, which stands at a proper angle from the wall, and consists of an endless band, upon which buckets are placed running over pulleys. The upper pulley has a bevel-gear, K, upon the end thereof, which gears into a bevel-gear, *l*, upon the shaft L. The shaft L is rotated by the cog-wheel M, connected by a chain-band with the smaller cog-wheel N upon the said shaft.

The feed of the mill is regulated by the forward hopper-board O, which may be made to slide up and down upon ways cut for its reception by the straps *p p'*, which pass around the roller R, when the same is rotated. One of the straps *p* is attached to the bottom of the said board, and the other to projections on the top thereof. The roller is rotated and adjusted by means of the arm S, which is rigidly attached to the said roller, and may be secured in any desired position by a pin passing through a hole cut in the same, and apertures in curved iron band T.

Having thus described the construction and operation of my invention, I claim and desire to secure by Letters Patent—

The screens A and B, boards D and E, division-blocks F, perforated blocks G, and trough C, all combined and operating together, as described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 14th day of April, 1873.

EDWARD MARSHALL GILBERT. [L. S.]

Witnesses:

ALFRED BROWN,
FRANK D. BROWN.