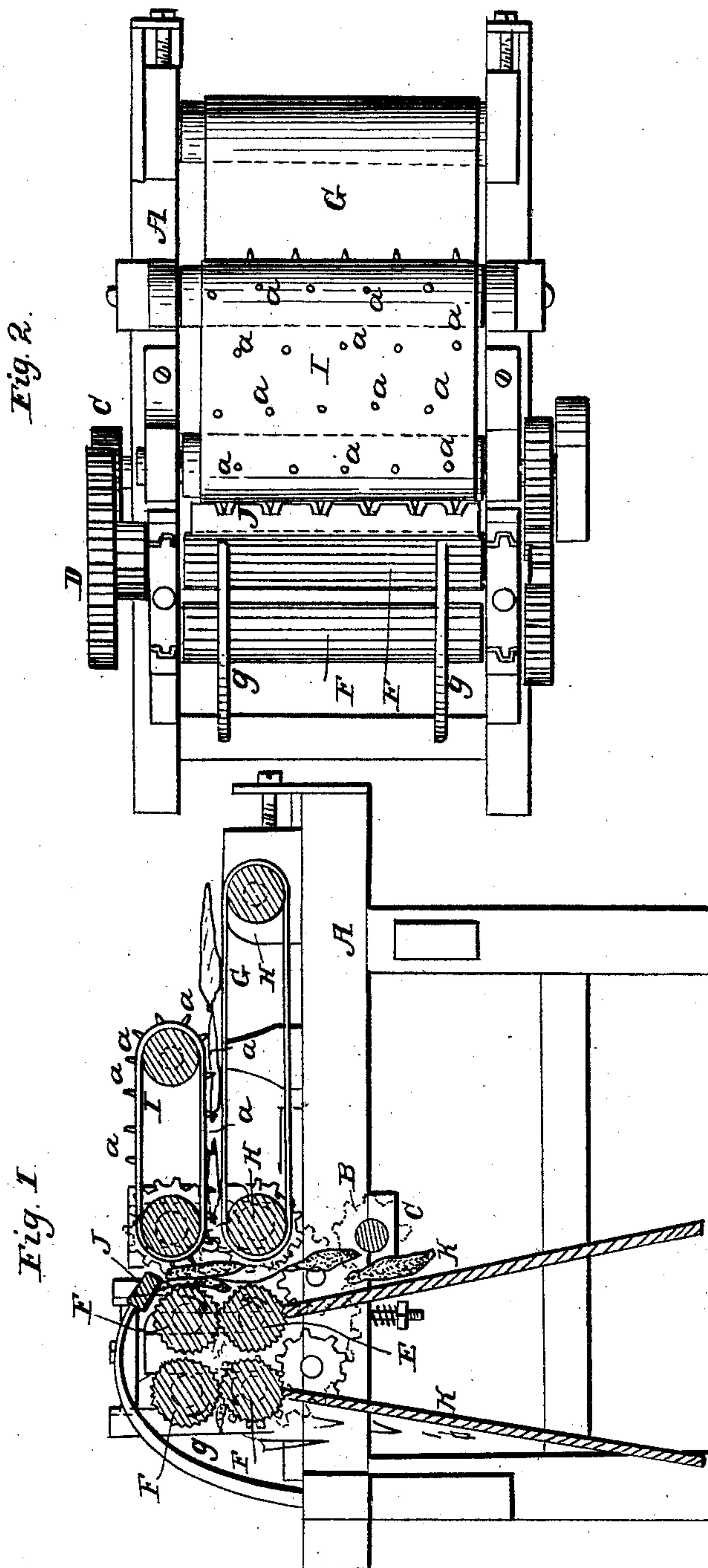


R. BRYSON.
Corn Husker.

No. 16,204.

Patented Dec. 9, 1856.



UNITED STATES PATENT OFFICE.

ROBT. BRYSON, OF SCHENECTADY, NEW YORK.

MACHINE FOR HUSKING CORN.

Specification of Letters Patent No. 16,204, dated December 9, 1856.

To all whom it may concern:

Be it known that I, ROBERT BRYSON, of Schenectady, in the county of Schenectady and State of New York, have invented a new and Improved Machine for Husking Corn; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1, is a longitudinal vertical section of my improvement, the plane of section being through the center. Fig. 2, is a plan or top view of the same.

Similar letters of reference indicate corresponding parts in the two figures.

My invention consists in the employment or use of endless aprons, corrugated rollers and an elastic guard arranged and operating as will be presently shown and described.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A, represents a rectangular framing which may be constructed in any proper manner to support the working parts.

B, represents the driving shaft of the machine which shaft is placed transversely in the upper part of the framing A. One end of the shaft B, has a pinion C, upon it and this pinion gears into a toothed wheel D, which is placed on one end of a corrugated roller E, from which motion is communicated by proper gearing to three similar rollers F, F, F, there being four rollers placed in pairs, side by side, one pair being directly over the other, as shown clearly in Fig. 1. The bearings of these rollers are placed or fitted in suitable frames or guides and weighted or secured therein by set screws, so that the rollers will be kept in proper position and prevented from being casually distended while in operation.

G, represents an endless apron which works over rollers H, H, in the framing A; said apron, (its upper surface), being in line with the point of contact of the two inner corrugated rollers,—the inner end of said apron not extending quite up to the inner rollers,—a space of suitable width being allowed between said rollers and the inner apron roller, see Fig. 1.

I, represents an endless apron which is somewhat shorter than the apron G, and is provided with spikes or teeth (a). The apron I, is placed directly over the apron G, a suitable space being allowed, between them.

J, represents a guard which is formed of a bar attached to the upper ends of curved elastic rods (g), (g). This bar is placed directly over the inner and upper corrugated roller and is notched or grooved to allow the teeth or spikes (a), of the apron I to pass through it as clearly shown in Fig. 2.

K, K, are guide boards placed in the framing A, and one under each of the lower rollers E, F. These boards are placed in inclined positions, as shown in Fig. 1.

The operation is as follows. The ears of corn are placed upon the apron G, and are fed along between the two aprons G, I. The corrugated rollers rotate in the direction indicated by the blue arrows and the speed of the rollers is somewhat quicker than that of the aprons. The husks are stripped from the ears by the two inner rollers E, F, and the portion of husks that are carried upward by the teeth (a), of the apron I, are passed over the inner and upper rollers, the guard J, preventing them from following the apron I, and pass down between the two upper rollers and out between the two outer rollers, while the husked corn passes down between the lower and inner roller and the endless apron G, as shown in blue, Fig. 1.

The above machine will operate rapidly and well. It is extremely simple, not liable to get out of repair, and is not expensive to manufacture.

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

The combination of the two endless aprons G, I, corrugated rollers E, F, F, and guard J, when constructed, arranged and operating as shown, for the purpose set forth.

ROBERT BRYSON.

Witnesses:

ELIPHT. NOTT,
ROBERT GRAY.