M. STONER.

MACHINE FOR CUTTING AND GRINDING VEGETABLES, &c.

No. 2,823. Patented Oct. 22, 1842.

Fig. 2.

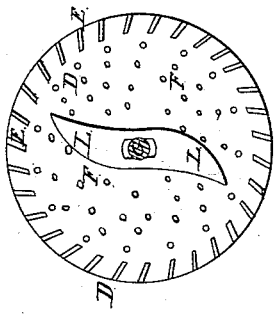


Fig. 3.

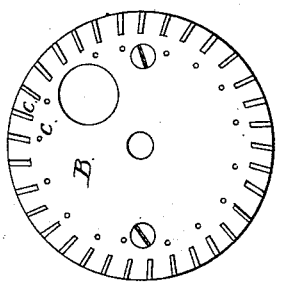
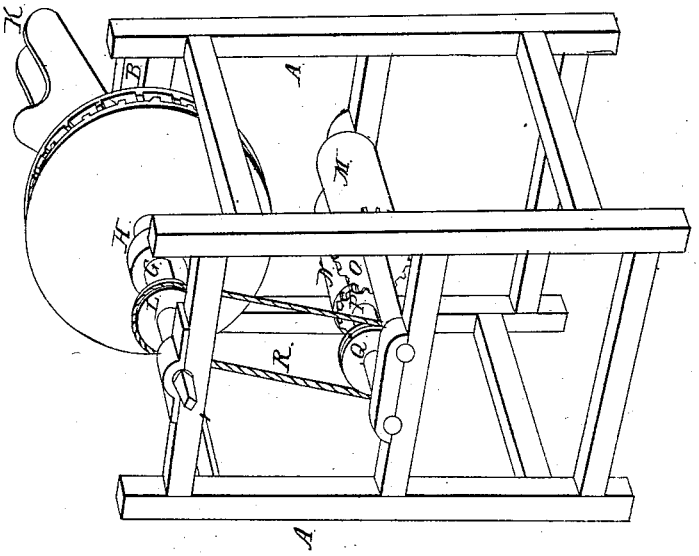


Fig. 4.



UNITED STATES PATENT OFFICE.

MARTIN STONER, OF WAYNESBORO, PENNSYLVANIA, ASSIGNOR TO HENRY HOOVER, OF WAYNESBORO, PENNSYLVANIA.

MACHINE FOR CUTTING VEGETABLES, &c.

Specification of Letters Patent No. 2,823, dated October 22, 1842.

To all whom it may concern:

Be it known that I, MARTIN STONER, of Waynesboro, Washington township, Franklin county, State of Pennsylvania, have invented a new and useful machine for cutting vegetables and other substances, breaking corn and cobs, grinding and crushing apples for making cider, cutting straw and fodder, and for other uses, which is described as follows, reference being had to the annexed drawings of the same, making part of this specification.

Figure 1 is a perspective view of the machine. Fig. 2 is a view of the inner face of the revolving disk. Fig. 3 is a view of the arm face of the stationary disk.

Similar letters refer to corresponding parts.

The frame A of this machine is made in the usual manner, of posts and rails mortised and tenoned together, of a suitable size and strength for containing and supporting the parts hereafter described.

In this frame, and at the top of the same, is fastened in a vertical position a circular disk B, armed on the inner face near the circumference with oblong projections, or teeth *c*, pointing toward the center. It is perforated in the center to admit the end of a shaft and between the center and periphery for feeding. A revolving disk D of the same diameter and thickness as that just described is arranged so as to turn against it, being also armed on its face turning against the stationary disk with several kinds of teeth, or projections, arranged in the following manner—those corresponding with the circular row of oblong teeth C on the stationary disk B (Fig. 3) and letter E (Fig. 2) radiate from points on the perimeter of a smaller circle than the disk; and the teeth or projections F within this circle of oblong teeth and the center are plain spurs or cogs on the surface of the disk which is concave or dished. The shaft G of this disk passes through it having one of its bearings in the central aperture of the stationary disk and its other bearing being on one of the rails of the frame on the square part of this shaft are two pulleys H, I—one plain and the other grooved.

A hopper K is arranged behind the stationary disk over the aperture therein by which the machine is fed with the article to be acted on—said hopper being in an inclined position and braced to the frame.

Two revolving knives L are placed between the disks for operating on the articles to be cut as they enter the space between the disks from the hopper—said knives being fixed to and revolving with the shaft G of the revolving disk. These knives may be shaped like a simitar; or in any suitable form.

Two parallel revolving crushing rollers M N are arranged below the disks turning together at different velocities, with their surfaces nearly touching for the purpose of crushing or mashing whatever substance is introduced between them previously operated on by the disks—such as apples for cider, &c., their axles turning together in suitable boxes on the frame said axles having cog wheels O P of different diameters meshing into each other—and a groove pulley Q on the axle of the smallest cog wheel for a band R which passes around the pulley on the axle of the revolving disk.

What I claim as my invention and which I desire to secure by Letters Patent is—

The arrangement of the knives L between the disks in combination with these and the rollers as before described.

MARTIN STONER.

Witnesses:
JAMES BURNE,
GEORGE C. COCHRAN.