(No Model.)

S. F. SAVITS.

MACHINE FOR CUTTING CORN IN THE COB.

No. 295,819. Patented Mar. 25, 1884.

Fig. 1.

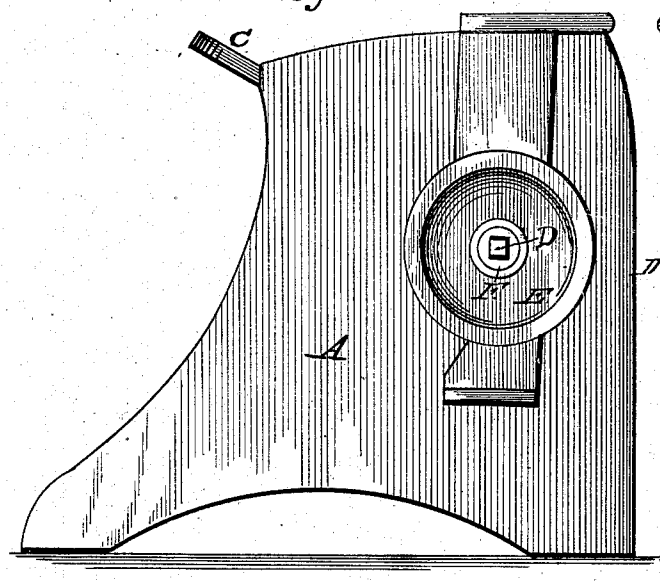


Fig. 3

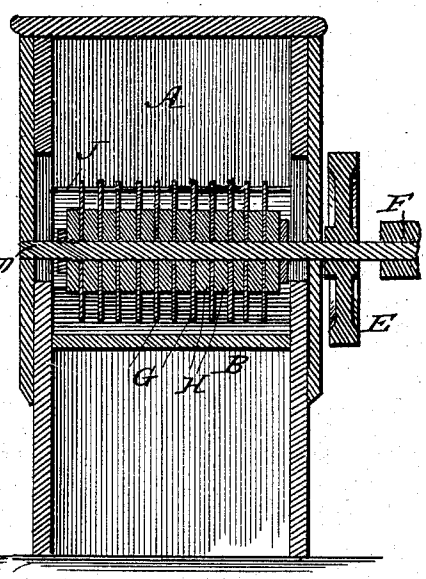


Fig. 2.

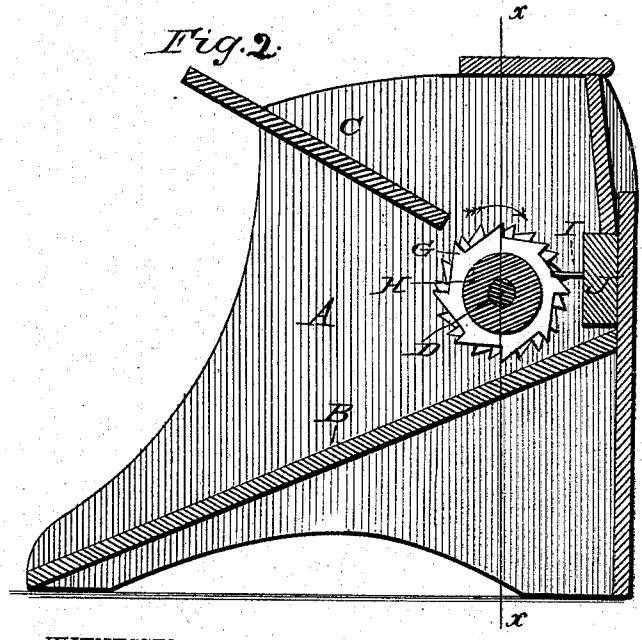
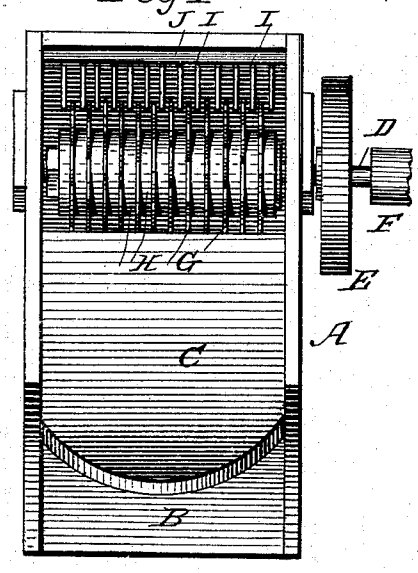


Fig. 4.



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UNITED STATES PATENT OFFICE.

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MACHINE FOR CUTTING CORN IN THE COB.

SPECIFICATION forming part of Letters Patent No. 295,819, dated March 25, 1884.

Application filed September 19, 1883. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL F. SAVITS, of Loudonville, in the county of Ashland and State of Ohio, have invented certain new and useful Improvements in Machines for Cutting Corn in the Cob; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a side elevation of my improved machine for cutting corn in the cob. Fig. 2 is a longitudinal vertical sectional view of the same. Fig. 3 is a vertical transverse sectional view through line *x x*, Fig. 2; and Fig. 4 is a top view, with the top of the machine removed.

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

My invention has relation to machines for cutting corn in the cob to fodder; and it consists in the improved machine, constructed as will be hereinafter more fully described and claimed.

In the accompanying drawings, A represents the frame or casing of the machine, which has an inclined floor, B, and the inclined feed-table C.

D represents the shaft, which is journaled in boxes or bearings in the sides of the machine, and has a fly-wheel, E, and band-pulley, F.

Fixed upon the shaft E are a series of saws, G, which are spaced by circular disks or washers H. I do not limit myself to any particular size or number of saws, as their size and number would of course vary with the size of the machine itself. By reference to Fig. 4 it will be seen that the saws project between teeth I, which are fixed in a block, J, in the front part of the machine; and as the corn is fed to the rotating cylinder, which revolves in the direction of the arrow, it is effectually cut up and crushed between the teeth of the revolving saws and the fixed teeth or crushers I, the cut and crushed corn dropping down upon the inclined floor B, from which it can readily be shoveled into the feed-bins. By this construction of the saw-cylinder any one of the saws can readily be removed for sharpening or in case of breakage; and in arranging the saws upon the cylinder, care should be taken to have the teeth of the saws alternate with the notches—that is to say, the saws are so arranged upon the shaft that the teeth of one saw will be opposite to the notches of the two saws next to it.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of my improved machine will readily be understood without requiring further explanation. It will be seen that there are no complicated parts to get out of order, and, with proper care, no accident can result by the use of the machine, inasmuch as the chopping-cylinder is completely inclosed within the casing.

I am aware that machines for cutting and crushing corn in the cob have been heretofore constructed provided with a series of circular saws or cutters arranged upon their shaft in such a manner that the teeth of one saw will be opposite to the notches of the two saws next to it. I am also aware that cutting and crushing machines have been heretofore constructed provided with a series of fixed teeth between which the saws project. I do not therefore claim either of the above-mentioned constructions, broadly; but

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

The herein-described machine for cutting and crushing corn in the cob, comprising the frame A, inclined feed-table C, inclined floor B, shaft D, having fly-wheel E and pulley F, circular saws or cutters G, the teeth of one saw being arranged opposite to the notches of the two saws next to it, spacing-disks H, and fixed teeth I, between which the saws G project, the whole constructed and arranged to operate substantially in the manner and for the purpose shown and described.

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

SAMUEL F. SAVITS.

Witnesses:

A. H. WILSON,

SILAS C. PARKER.