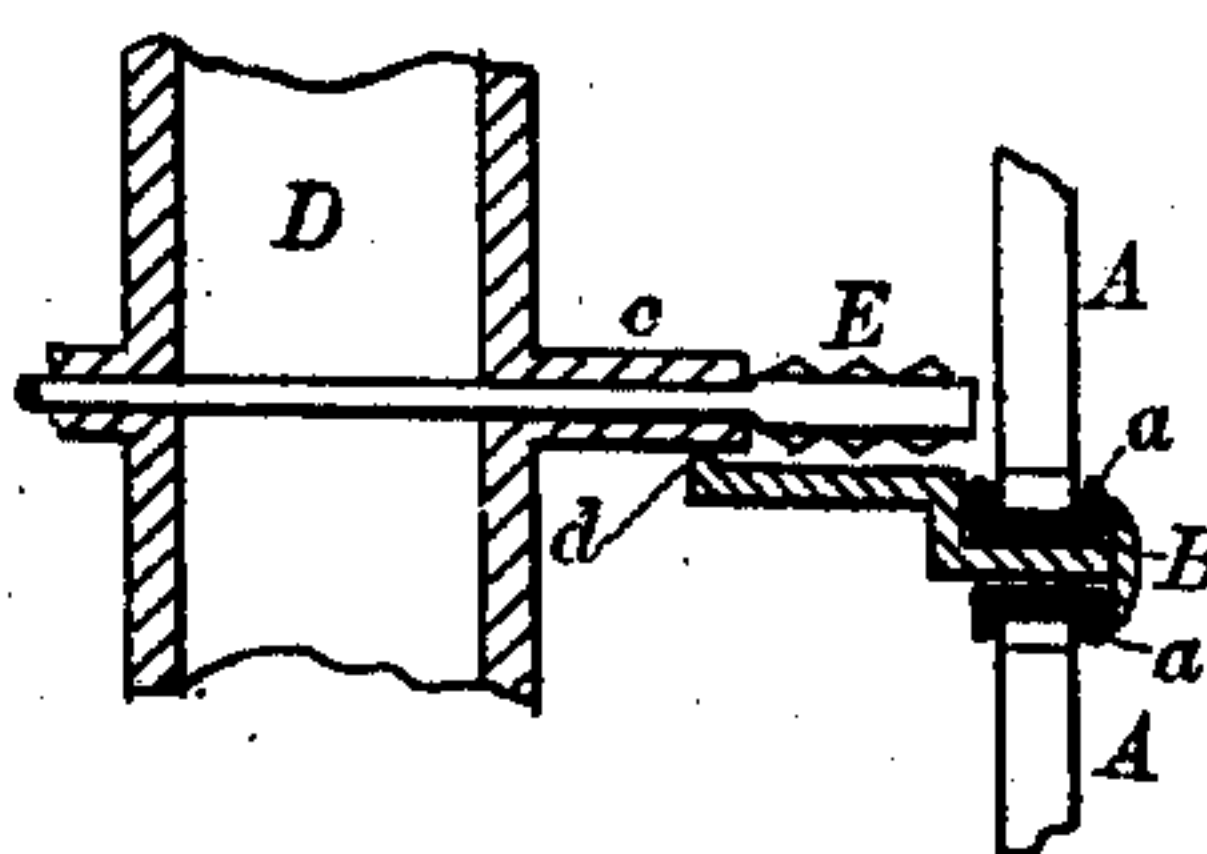
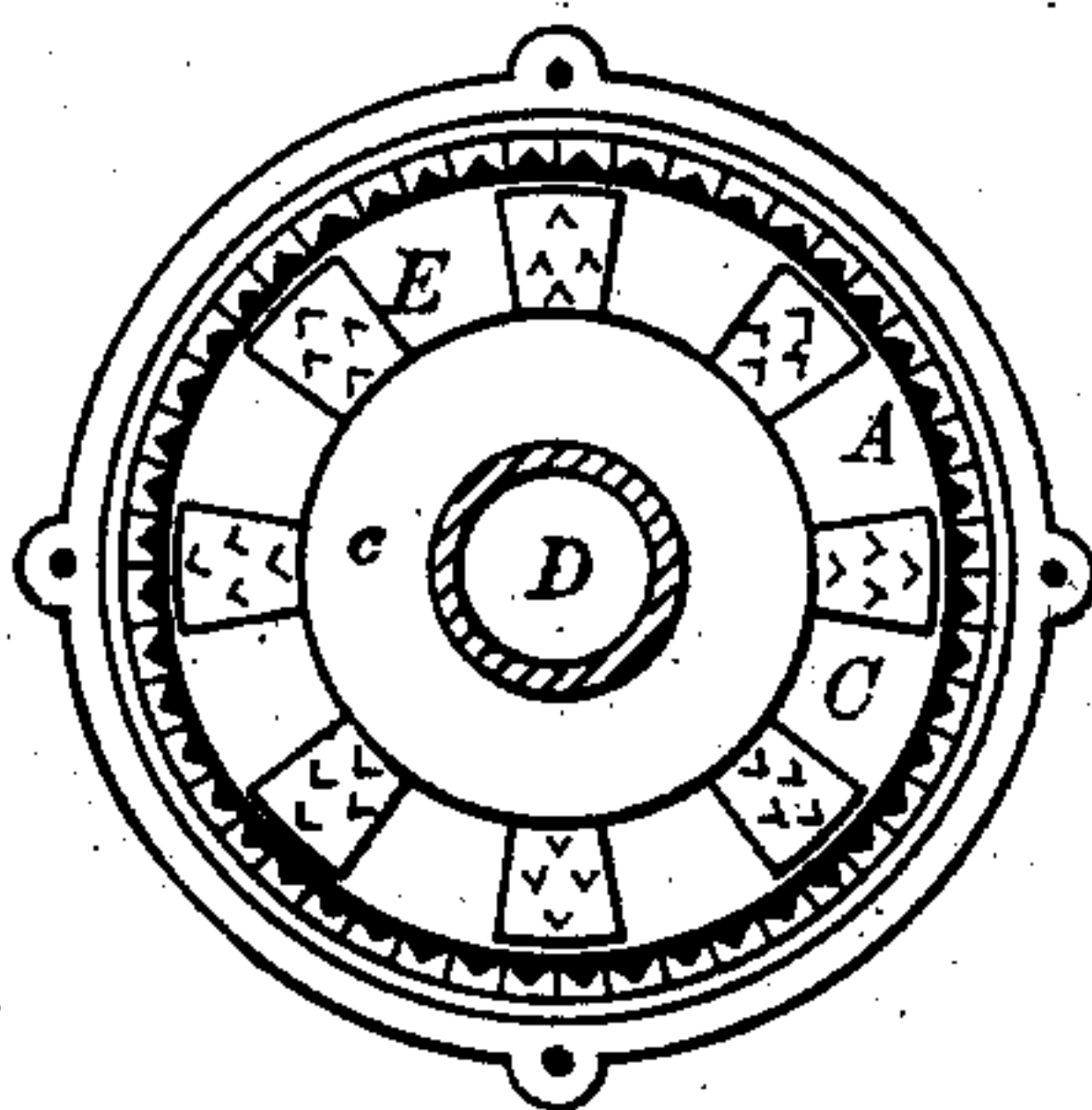
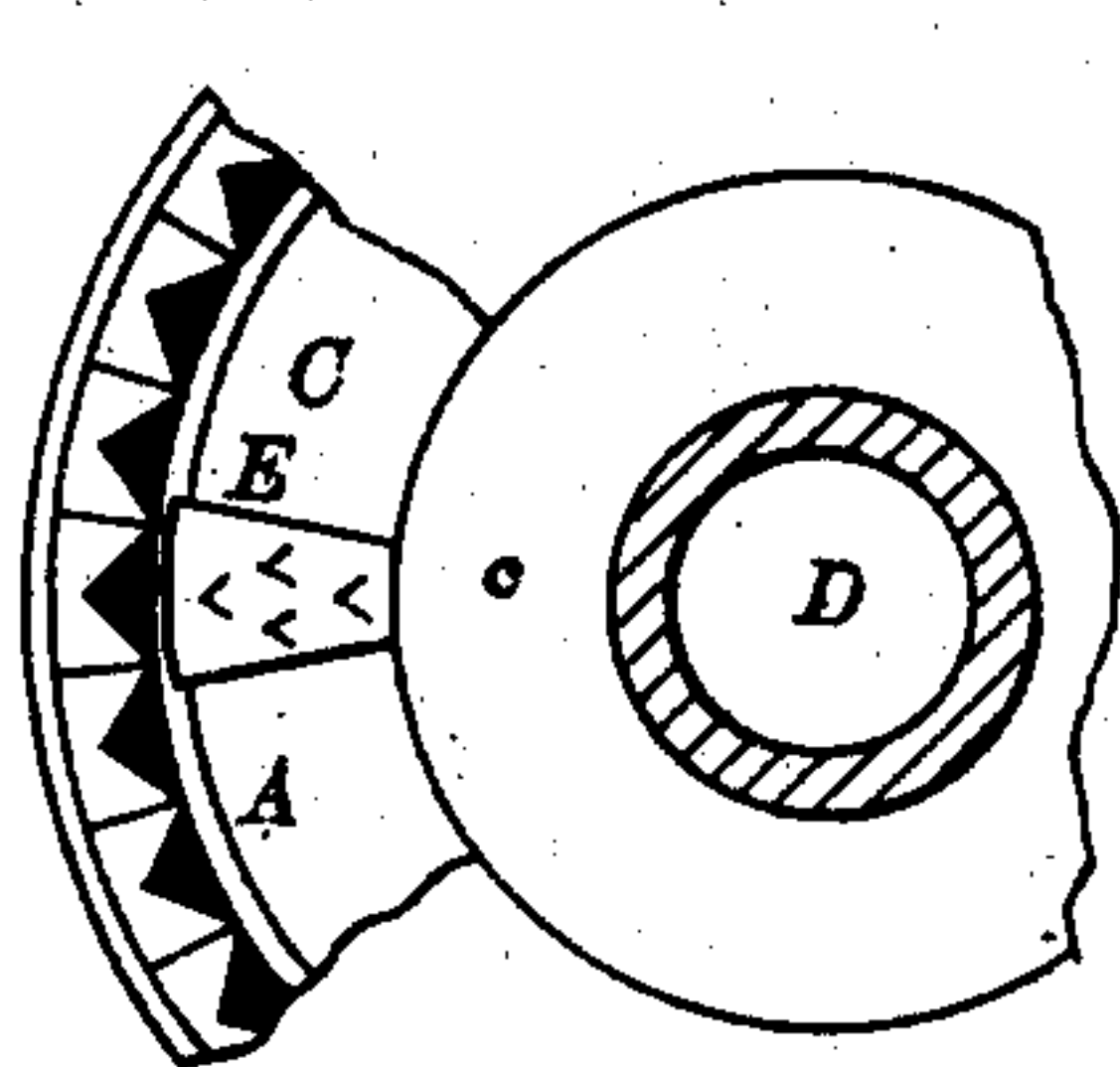
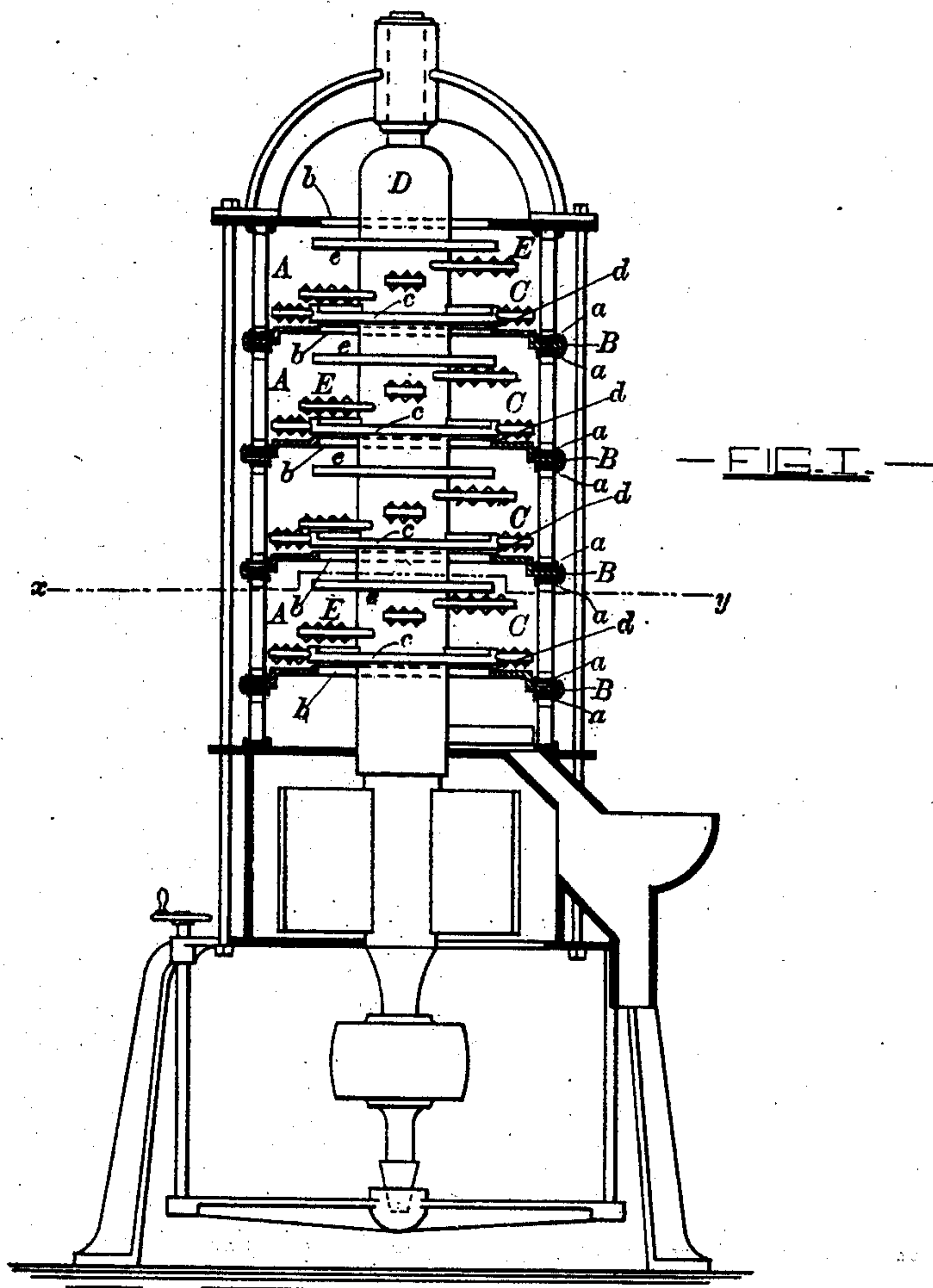


(No Model.)

C. S. DAY.
HOMINY MILL.

No. 244,864.

Patented July 26, 1881.



— FIG. II. —
— WITNESSES. —

Julius F. Cassel.
Harry H. Albough.

— FIG. IV. —
— INVENTOR. —

Charles S. Day.
by G. H. H. Howard,
attys.

UNITED STATES PATENT OFFICE.

CHARLES S. DAY, OF BALTIMORE, MARYLAND.

HOMINY-MILL.

SPECIFICATION forming part of Letters Patent No. 244,864, dated July 26, 1881.

Application filed December 20, 1880. (No model.)

To all whom it may concern:

Be it known that I, CHARLES S. DAY, of the city of Baltimore and State of Maryland, have invented certain Improvements in Hominy-Mills, of which the following is a specification; and I do hereby declare that in the same is contained a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The first part of my said invention consists in providing the central shaft or spindle of the mill, which is adjustable in height, with disks, which are located immediately above the plates which divide the mill into a number of separate grinding chambers or cages. The said disks, in the vertical adjustment of the shaft, operate as valves to control the opening in the dividing-plates, and thereby prevent the escape of hominy from the chambers until it is reduced to a proper size.

The second part of my said invention consists in providing the separating or dividing plates before alluded to with annular projections around the central openings therein, against which projections the disks before referred to come in contact when lowered to their extreme limit, the object of the said projections being to prevent, under any circumstances, the too close approach of the lower beaters in the cages to the dividing or separating plates and the reduction of the hominy to meal or flour.

In the further description of my said invention which follows, reference is made to the accompanying drawings, forming a part hereof, and in which—

Figure I is a vertical section of the improved hominy-mill. Fig. II is a transverse section of the mill, taken on the dotted line *xy*. Figs. III and IV are views of parts of the mill, on an enlarged scale.

Similar letters of reference indicate similar parts in all the views.

In the said drawings, A A are the slotted cages of the mill. B B are plates which divide the mill into a number of grinding-chambers, C.

The plates B are necessarily in two parts—that is to say, each plate is formed of two semicircular sections, so that they may be placed around the central shaft; and in order that the said sections may be held together

independently of the cages, I provide each plate with an upper and a lower grooved binding-ring, *a*. The plates B have central apertures, *b*, which form the means of communication between the several chambers, and through which the central shaft, D, extends.

The disks before alluded to are denoted by *c*, and it will be seen that they are located immediately above the separating-plates B.

The central shaft, D, is adjustable in height, and when sufficiently lowered the disks *c* rest upon projections *d* on the upper surface of the plates B.

The beaters (represented by E) are of the usual kind, and extend from the shaft D, as shown.

The mill has the ordinary stand, and is provided with a sweep and a blast-fan, as is common in mills of this class. The stem of the lower beater in each cage preferably passes through the disk *c*, in order that the under surface of the said beater may be nearly in contact with the separating-plate directly beneath it when the said disk rests upon projection *d*.

Each cage is provided with a second disk, *e*, located considerably below the upper separating-plate. The object of this second disk is merely to increase the centrifugal force with which the corn is thrown from the central shaft.

I do not claim a hominy-mill having the central shaft provided with flanges to increase the movement of corn toward the cages; but

What I claim as my invention is—

1. In a hominy-mill, a vertically-adjustable central shaft, surrounded by cages and separating-plates, the said shaft having a series of disks projecting therefrom and located immediately above the said separating-plates, substantially as and for the purpose herein specified.

2. In a hominy-mill, the centrally-perforated separating-plate B, having the annular projection *d*, combined with the vertically adjustable central shaft, D, the said shaft being provided with the disk *c*, situated immediately above the said projection, substantially as and for the purpose herein specified.

CHARLES S. DAY.

Witnesses:

WM. T. HOWARD,
HARRY V. ALBAUGH.