3 Sheets—Sheet 1.

G. STRAUSE.

Hominy Machine.

No. 25,536. Patented Sept. 20, 1859.

Fig: 1.

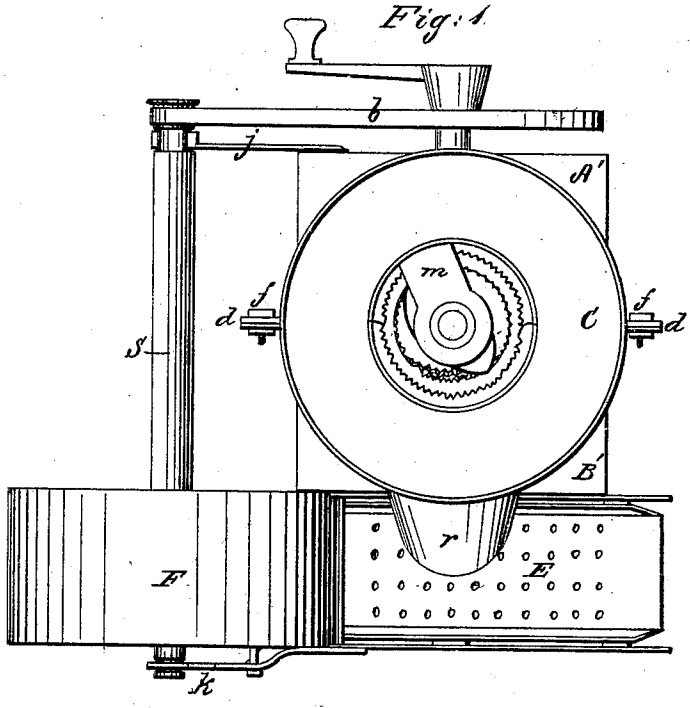
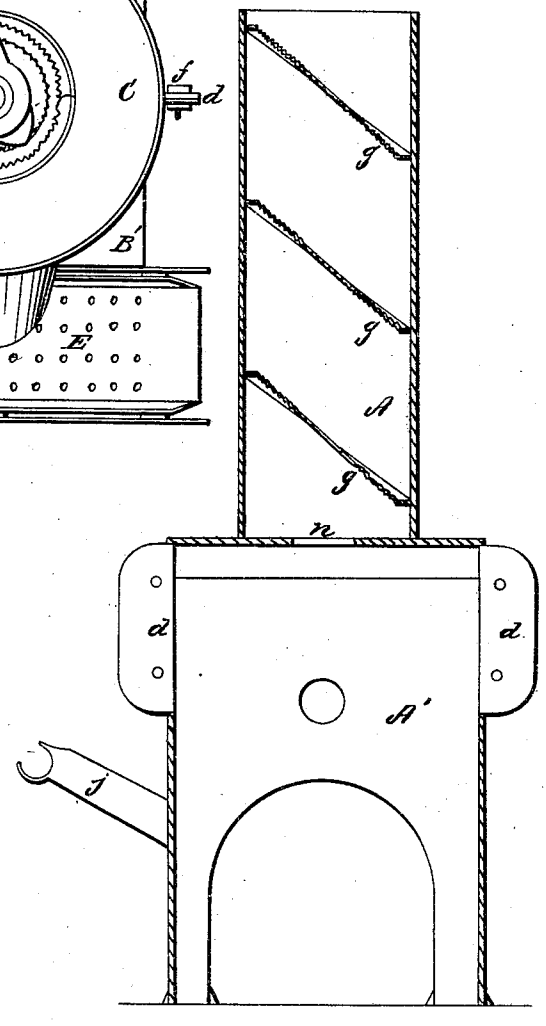


Fig: 4.



Witnesses:
John C. Smith
A. Wolfersberger.

Inventor:
G. Strause

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G. STRAUSE.

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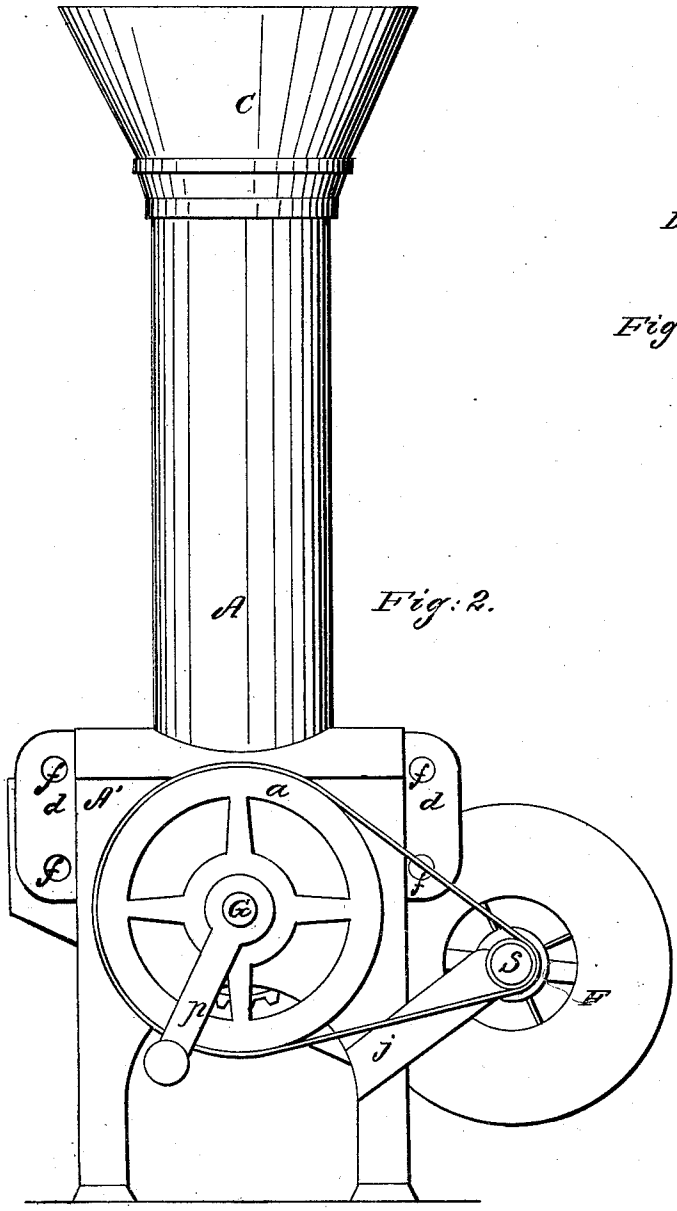


Fig: 2.

Fig: 7.

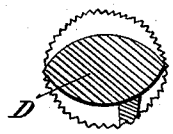
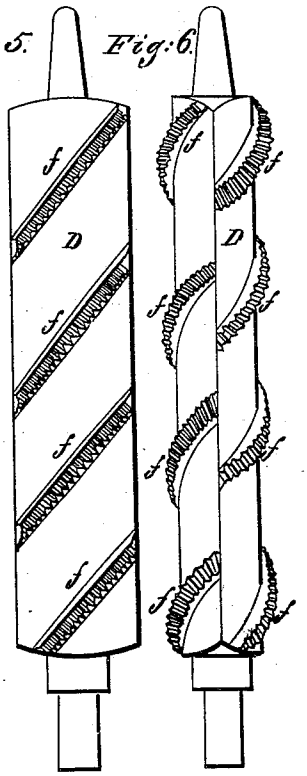


Fig: 5. Fig: 6.



Witnesses:
John C. Smith
J. Wolfersberger

Inventor:
G. Strause

3 Sheets—Sheet 3.

G. STRAUSE.

Hominy Machine.

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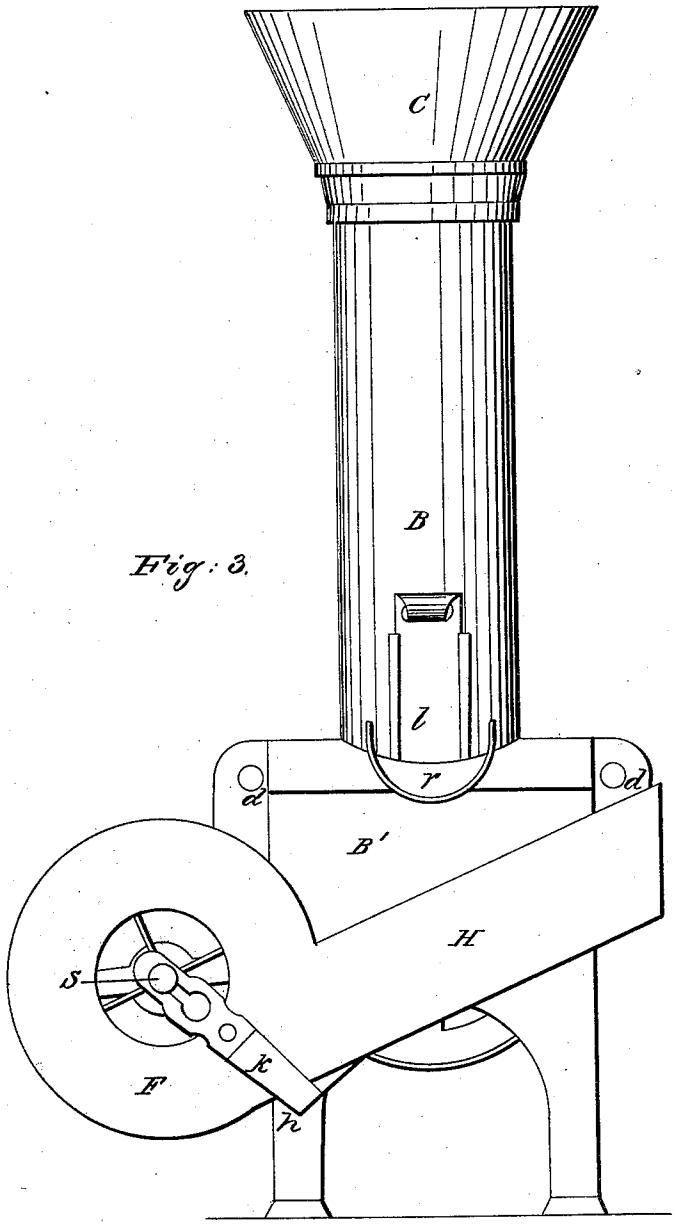
Fig: 3.



Witnesses:
John C Smith
P. Wolfersberger.

Inventor:
G. Strause

UNITED STATES PATENT OFFICE.

GEORGE STRAUSE, OF BOONSBORO, MARYLAND.

HOMINY-MILL.

Specification of Letters Patent No. 25,536, dated September 20, 1859.

To all whom it may concern:

Be it known that I, GEORGE STRAUSE, of Boonsboro, in the county of Washington and State of Maryland, have invented a new and Improved Hominy-Mill; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, Figure 1 being a top view of said mill; Figs. 2 and 3, views of opposite sides of the same; Fig. 4, an inside view of one of the sides of the body of said mill detached; Fig. 5, a side view, and Fig. 6 an edge view, of the toothed grinding-shafts; and Fig. 7 is a transverse section of said shaft.

Similar letters indicate like parts in each of the drawings.

The body of my improved hominy mill is in the form of a vertical tube rising from the center of a rectangular base and surmounted by a funnel-shaped head. The said body of the mill is composed of two correspondingly shaped sections A A′ and B B′, which are combined with each other in the manner represented in the drawings; viz: flanches *d*, *d*, projecting from the inner edges of the base portions A′ and B′ of said sections are combined with each other by means of screw-bolts *f*, *f*; and the upper ends of the tubular portions A and B of said sections are embraced by the closely fitting funnel-shaped cap C, which also serves as a hopper for the said mill. Or the aforesaid sections of the body of my improved hominy mill may be combined with each other in any other suitable manner.

A toothed-shaft D, of the peculiar shape represented in the drawings, is placed centrally within the vertical tube A B, the teeth of which shaft act in conjuntcion with the toothed segments *g*, *g*, that are secured to the inner surface of said tube. The journal at the upper end of the shaft D, is received into the bearing *m*, (Fig. 1,) which projects from the funnel-shaped head C; and the journal at the lower end of said shaft passes through the opening *n*, (Fig. 4,) formed for its reception at the bottom of the tube A, B. A beveled wheel (not shown in the drawings) is secured to the lower extremity of the journal at the lower end of the shaft D, and gears into a corresponding wheel on the driving shaft G, which passes through the rectangular base-portion of the body of the mill. The said driving shaft may be turned by taking hold of the crank *p*, or it may be turned by any other means.

The sliding gate *l*, at the bottom of the section B, of the vertical tube A B, covers the aperture through which the hominy passes from the disintegrating chamber out into the spout *r*, which discharges the same on to the inclined screen E. The said screen E, forms the bottom of the spout H, of the fan-blower F, but the lower end of said screen inclines suddenly downward just before reaching the blowing chamber, and discharges the cleaned hominy at the point *h*.

The shaft *s*, of the fan-blower, is banded to the pulley *a*, on the driving shaft G, of the mill. The body of the fan-blower may be secured to the base of the hominy-mill in any suitable manner. The pulley end of the fan shaft *s*, is supported by the arm *j*, which projects from one of the angles of the base of the mill.

The series of toothed segments *f*, *f*, which are secured to the shaft D, and also the toothed segments *g*, *g*, on the inner periphery of the tube A B, are segments of a circle of much larger diameter than that of the said tube; and these toothed segments are respectively placed in such positions with relation to each other that the segments *f*, *f*, on the shaft D, will draw gradually across the segments *g*, *g*, within the tube A, B, and in an almost lengthwise direction, thereby producing a combined rasping and cracking action upon the kernels of corn let into the said tube, of the greatest possible efficiency; which fact is demonstrated by the astonishingly rapid production of hominy of the most superior quality by the use of my improved hominy mill. And the aforesaid effect could not be produced did not the peculiar two-sided shape of the shaft D, permit the above described toothed segments *f*, *f*, to be combined with the opposite faces thereof.

I shall not in all cases form teeth in the edges of the segments which are combined with the inner face of the tube A. B.

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

Giving to the shaft D, substantially the shape represented in the accompanying drawings, when the said shaft is armed with toothed segments and is operated within a tube which is also armed with counteracting segments substantially in the manner herein set forth.

G. STRAUSE.

Witnesses:
JOHN E. SMITH,
I. WOLFERSBERGER.