

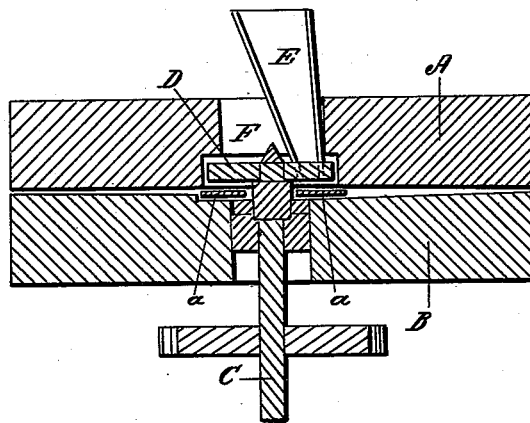
J. M. MILLER.

Corn Mill.

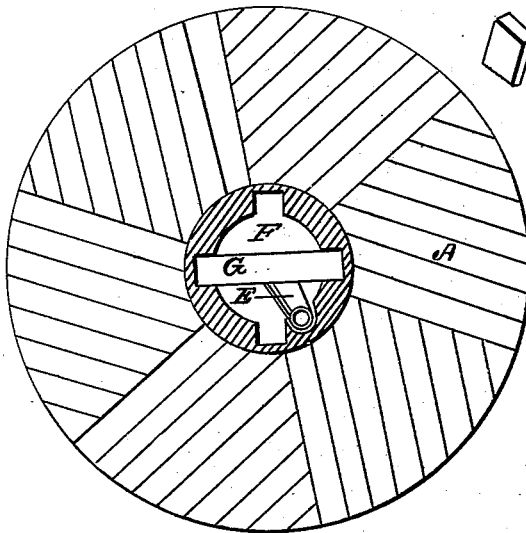
No. 2,923.

Patented Jan. 20, 1843.

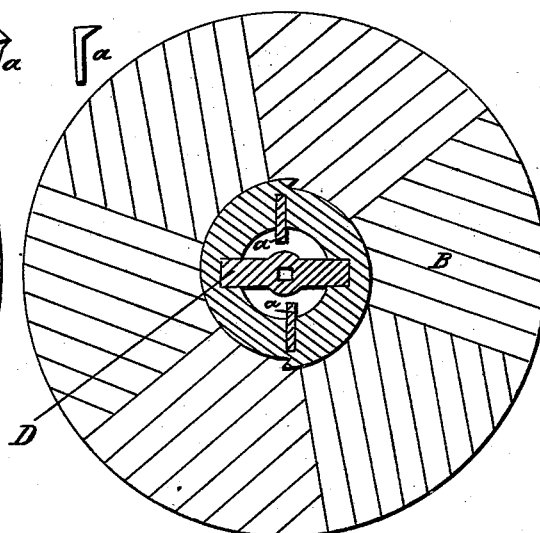
*Fig: 1.*



*Fig: 2.*



*Fig: 3.*



# UNITED STATES PATENT OFFICE.

JAMES M. MILLER, OF MOBILE, ALABAMA.

## MILL FOR GRINDING CORN WITH THE COB.

Specification of Letters Patent No. 2,923, dated January 20, 1843.

*To all whom it may concern:*

Be it known that I, JAMES M. MILLER, of the city of Mobile, in the county of Mobile and State of Alabama, have invented a new and useful manner of grinding corn in the ear, bark for tanning, and other articles, by combining certain apparatus necessary for that purpose, with ordinary mill stones; and I do hereby declare that the following is a full and exact description thereof.

In the center of the upper stone, or runner, I place a funnel-formed tube in such manner as that it shall serve the purpose of a conductor, or hopper, to conduct the ears of corn, or the pieces of bark, on to the lower, or bed, stone, which holds knives, or cutters, between which and the balance rine the ears of corn, or other articles, are to be cut into pieces sufficiently small to allow them to pass between the stones. For the purpose of holding the funnel-formed tube in place in the eye of the runner, I place a plug, or block, of wood, or other suitable substance, in the eye, and perforate it in such manner as that the upper end of the tube, when inserted in said perforation, shall be in the center of the stone, and its lower end over the knives, or cutters, in the bed stone, which knives are close to the bushing that surrounds the spindle.

In the accompanying drawing, Figure 1, is a vertical section through the centers of the mill stones. Fig. 2, shows the face of the upper, and Fig. 3, of the lower mill stones.

A, is the upper, and B, the lower mill stone; C, the spindle, and D, a balance rine, which I make straight, as represented in the drawing.

E, is the conducting tube, funnel, or hopper, through which the corn, or other article, is to be fed. This tube is so curved, or formed, as that its upper end shall coincide with the center of the stone, in order to facilitate the feeding into it, while its lower end shall be immediately above one knife, or two, or more, knives *a, a*, affixed in the bed stone. The balance rine D, comes nearly into contact with the knives *a, a*, and the

corn, or other article, is cut off between the two, by an action resembling that of shears.

F, is a block or plug, of wood which is driven into the eye of the runner, and serves to hold the tube E, in place.

G, is the cavity in the runner within which the balance rine D, is to be received.

The ears of corn, as they are fed in, are cut by the knives and balance rine, or driver, into pieces sufficiently small to pass between the stones, and to be ground by them as may be required; the same is the case with bark, which must, however, be first reduced into strips so as to pass through the tube E. Toward the center, the stones should be open about three-fourths of an inch; the opening, or space, diminishing gradually in approaching toward the periphery, where they may be dressed flat, to such distance as may be required.

The same stones may be used for shelling corn, or for the purpose of grinding grain. For the former purpose, all that is necessary is to elevate the runner so as to have a suitable space for the passing in of the ears as they descend through the tube; the grain must subsequently be separated from the broken cobs by means of a fanning mill. For grinding grain, the wooden plug and the conducting tube are to be removed and the ordinary hopper put in place. I mention this for the purpose of showing how readily mill stones now in use, may be adapted to the purpose of cutting up and grinding ears of corn, and other articles, without interfering with their application to ordinary grinding.

What I claim as new in the foregoing, and desire to secure by Letters Patent, is—

The manner of arranging and combining the tube, or funnel E, the cutting knives and the straight balance rine, for the purpose, and substantially in the manner, herein set forth.

J. M. MILLER.

Witnesses:

B. H. ELLIOTT,  
A. PHELPS.