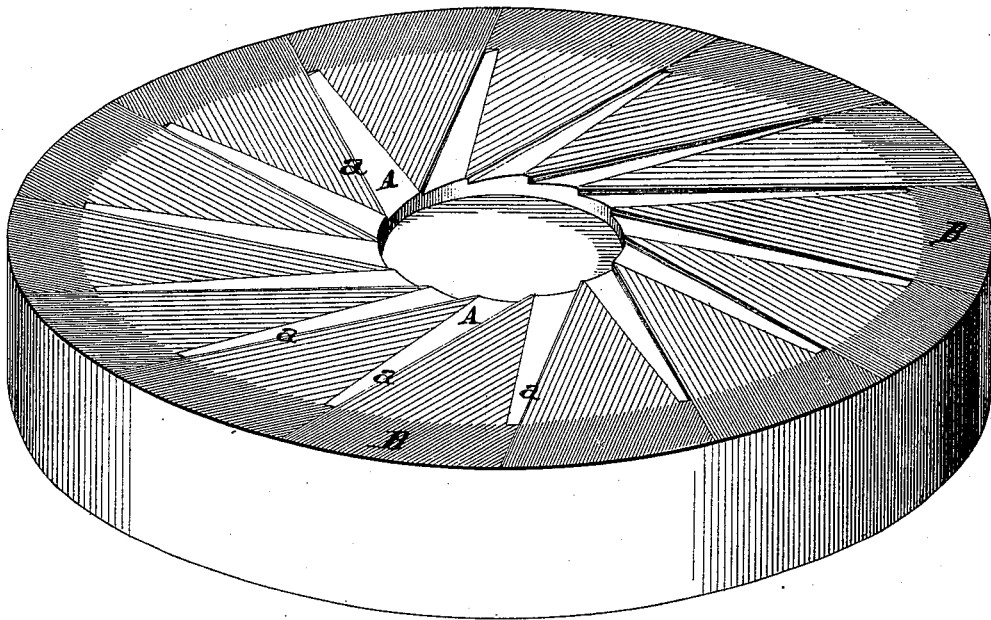


E. D. SPEER.  
Mill-Stone Dress.

No. 196,944.

Patented Nov 6, 1877.



Attest

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# UNITED STATES PATENT OFFICE.

EDWARD D. SPEER, OF SPRINGFIELD, ILLINOIS, ASSIGNOR TO THE  
BROOKVILLE PAPER COMPANY, OF BROOKVILLE, INDIANA.

## IMPROVEMENT IN MILLSTONE-DRESSES.

Specification forming part of Letters Patent No. **196,944**, dated November 6, 1877; application filed  
March 19, 1877.

*To all whom it may concern:*

Be it known that I, EDWARD D. SPEER, of Springfield, Sangamon county, State of Illinois, have invented an Improvement in Mill-Dressing, of which the following is a specification:

My invention is a peculiar dress to millstones constructed and used to grind flax-straw and other fibrous material used in the manufacture of paper; and consists in cutting straight tapering tangential furrows between the eye and the skirt of the stone, picking the lands in lines parallel to the adjacent track-edges of the furrows, and picking the skirt in sections by lines parallel with, but closer together than, the lines of the adjoining lands, the sections of the skirt being divided on the lines of the track-edges of the furrows.

The accompanying drawing is a perspective view of one of a pair of stones dressed in my improved manner, it being my intention to dress the two stones of the mill alike.

Straight tangential furrows A are cut in the face of the stone, between the eye and the skirt B, the furrows being tapering in form and widest at the eye, so as to feed uniformly at varying distances from the axis. The lands between these furrows are picked in lines parallel to the track-edges *a* of the furrows, as shown. The skirt B has no furrows, but is picked in sections defined by lines forming ex-

tensions of the track-edges *a*. The pick of the skirt is also in tangential lines, the lines in each section being parallel with, but closer together than, the lines of the adjoining land, as shown.

In the operation of this stone so dressed the furrows feed the flax-straw or other equivalent material, after it has been steamed in the usual way, and by reason of the character of the dress the material escapes pulped completely and to a uniform consistency, the skirt B allowing no escape of material incompletely ground or pulped.

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

A dress for millstones for pulping fibrous material for the manufacture of paper, consisting of the tangential tapering straight furrows A, the intermediate lands picked with lines parallel to the track-edges *a* of the furrows, and the skirt B, divided into sections defined by lines in continuation of the track-edges *a*, each section being picked with lines parallel to, but closer together than, the lines of the adjoining land, substantially as specified.

In testimony of which invention I hereunto set my hand.

EDWARD D. SPEER.

Witnesses:

F. MILLWARD,  
J. L. WARTMANN.