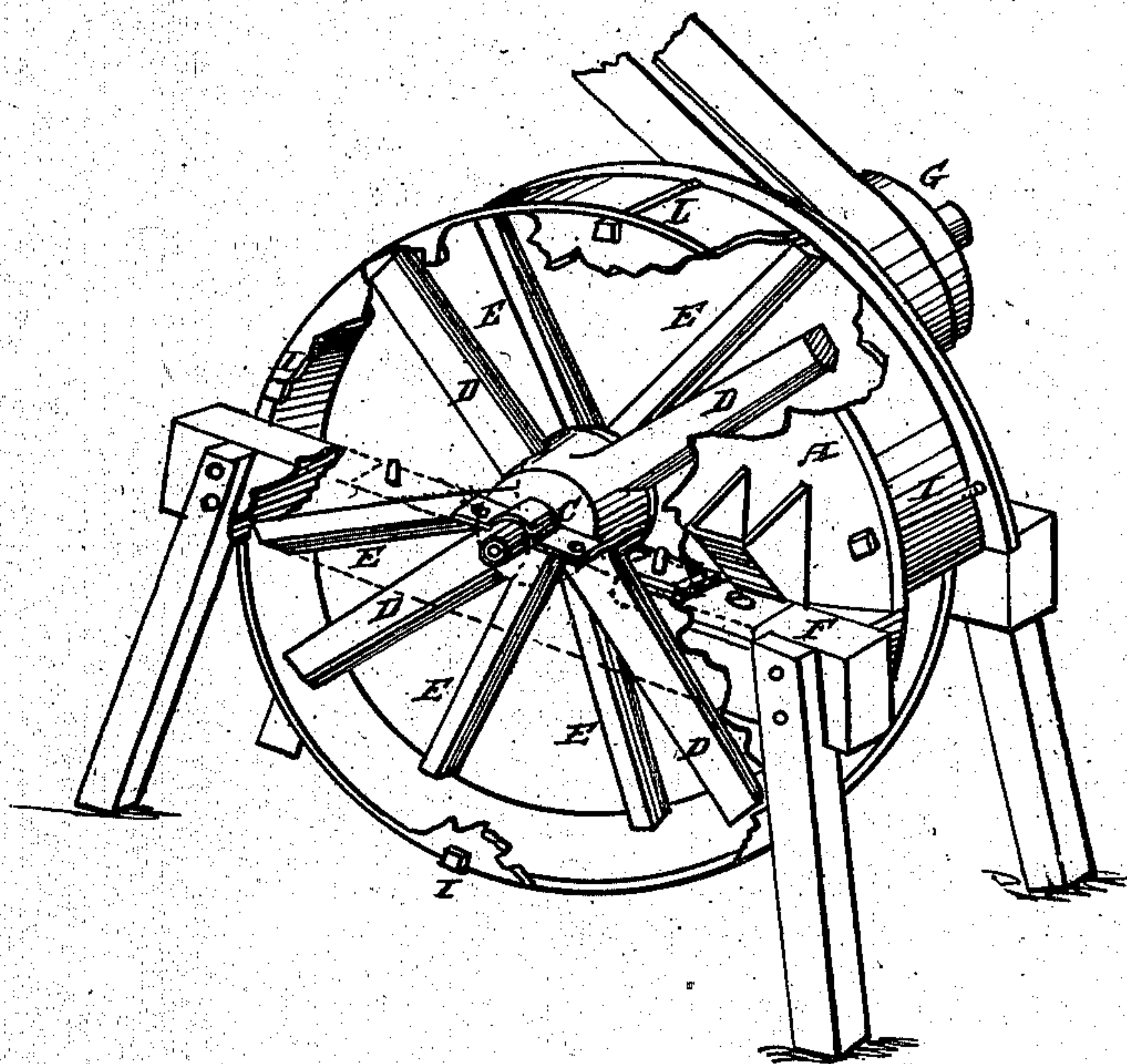


*W. C. Thompson:*

*Saw Mill*

*Nº 105,999.*

*Patented Aug. 2, 1870.*



*Witnesses:*

*James H. Sweeney,  
Siles A. Thompson,*

*Inventor:*

*William Carroll Thompson.*



# UNITED STATES PATENT OFFICE.

WILLIAM CARROLL THOMPSON, OF WILLIAMSON COUNTY, TENNESSEE.

## IMPROVEMENT IN SMUT-MILLS.

Specification forming part of Letters Patent No. 105,999, dated August 2, 1870.

*To all whom it may concern:*

Be it known that I, WILLIAM CARROLL THOMPSON, of the county of Williamson and State of Tennessee, have invented a new and useful Improvement in Smut-Mills; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

The nature of my invention consists in providing a mill with circular box, made of iron, and frame made of any suitable material, but more especially in the ribs or projections on the inside of the box, against which the arms of the center are made to revolve rapidly, they being made to work nearly close, so that no grain can pass through without being thoroughly cleansed from smut, dust, or other matter.

The drawing represents a sectional elevation with one side left out, in order to show more clearly the internal arrangement.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation by reference to the drawing, in which—

A is a circular box, made of iron, and held together by means of the bolts I I I I, through the flanges on the outside.

B is the hopper through which the machine is fed.

E E E E are ribs or projections cast on the inside of both sides of the box A.

C is the hub of the center or beater, which is also made of iron.

D D D D are the arms or beaters, which are so made as to work nearly close to the ribs E E E E, so that no grain can pass between without being thoroughly cleansed, by means of the rapid motion of the machine when in operation.

F is the frame on which the machine rests, and is made of wood or any other suitable material.

G is the pulley and shaft by which the machine is operated.

Having thus fully described the construction of my invention, I will proceed to describe its operation, which is simply that of putting the machine in motion by means of a belt on pulley G, after which feed it by pouring the grain into hopper B, which conducts it into the box A, where it is thoroughly cleansed by the action of the beaters or arms D D D D. Therefore

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

The ribs or projections E E E E E, on the inside of the box A, the center C, and the beaters or arms D D D D, in combination with the box A, the frame F, and the shaft and pulley G, when arranged, constructed, and operated in the manner and for the purpose set forth.

WILLIAM CARROLL THOMPSON.

Witnesses:

JAMES H. SWENY,  
SILAS A. THOMPSON.