

R. McKENNA.  
Improvement in Cotton-Gins.

No. 128,743.

Patented July 9, 1872.

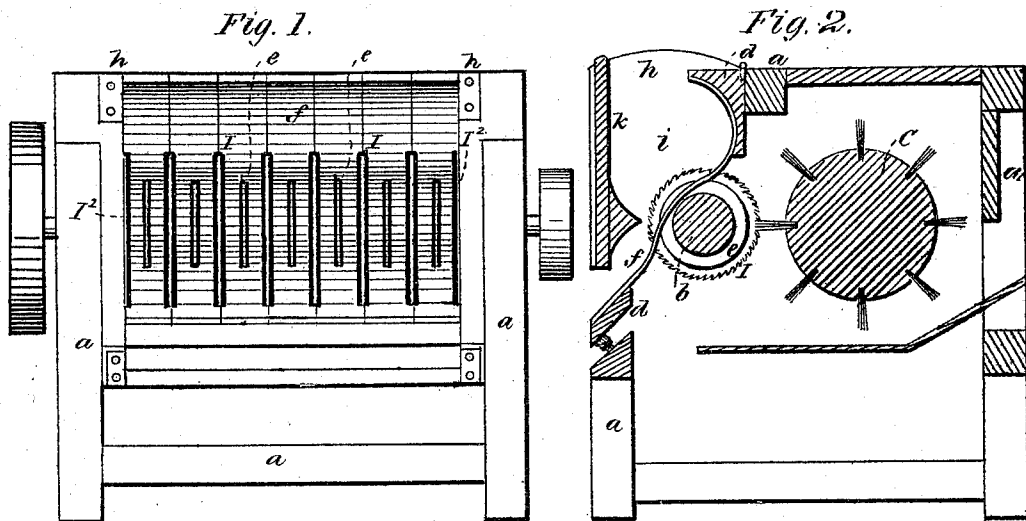
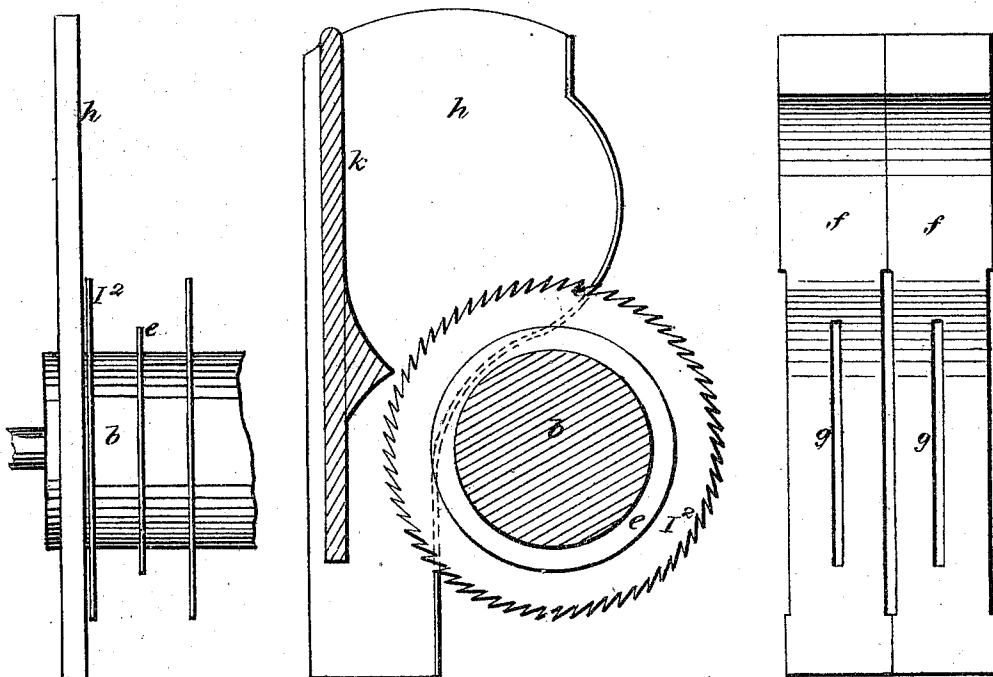


Fig. 3.

Fig. 4.

Fig. 5.



Witnesses.

William H. Hazel  
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# UNITED STATES PATENT OFFICE.

ROBERT McKENNA, OF WHITE'S STATION, TENNESSEE.

## IMPROVEMENT IN COTTON-GINS.

Specification forming part of Letters Patent No. 128,743, dated July 9, 1872.

### SPECIFICATION.

I, ROBERT McKENNA, of White's Station, in the county of Shelby and State of Tennessee, have invented certain Improvements in Cotton-Gins, of which the following is a specification:

#### *Nature and Objects of my Invention.*

My invention relates to the employment of a series of flanges on the saw-shaft of a cotton-gin in such a manner that said flanges shall be useful in propelling the roll in its revolutions; the object being to give a constant and uniform motion to the roll.

#### *Description of the Accompanying Drawing.*

Figure 1 is a front elevation of a cotton-gin, with the seed-board K removed, embodying my invention. Fig. 2 is a vertical transverse section of the same. Fig. 3 is a front elevation of one end side board, *h*, one end saw, *I*<sup>2</sup>, and one flange, *e*, and a section of the saw-cylinder *b*. Fig. 4 is a side elevation of one end side board, *h*, one end saw, *I*<sup>2</sup>, and one flange, *e*, and transverse sections of the saw-cylinder *b* and the seed-board K. Fig. 5 is a front elevation of two of the ribs *ff*, showing two of the slots *g g*.

#### *General Description.*

*a* is the frame of the cotton-gin; *b* is the

saw-cylinder; *c* is the brush-cylinder; *d* is the breast; all of which, with the exception of the addition of a series of flanges on the saw-cylinder, are constructed, located, and operated in the usual manner. *ee* are the flanges, which constitute my invention. They are fastened to the saw-cylinder *b* in the same manner as the saws *I I*: Said flanges resemble the saws *I I*, except that they are less in diameter, and have no teeth, one of said flanges being located in each space between two saws throughout the length of the series of saws on the saw-cylinder *b*. A slot, *g*, is made in each of the ribs *ff* of the breast *d*, of sufficient width and length to admit a section of one of said flanges *ee* to enter a sufficient distance to enable part of the periphery of said flange to come in contact with the surface of the roll in the roll-box *i*, thereby causing sufficient friction to propel the roll in its revolution.

#### *Claim.*

I claim as my improvement and desire to secure by Letters Patent—

The employment of the flanges *ee* for the purpose set forth, when the same are arranged as specified.

ROBERT McKENNA.

Witnesses:

JOHN McKENNA,  
WILLIAM H. HAZEL.