

(No Model.)

T. H. ABERNETHY.
RIB FOR SAW GINS.

No. 417,849.

Patented Dec. 24, 1889.

Fig. 1.

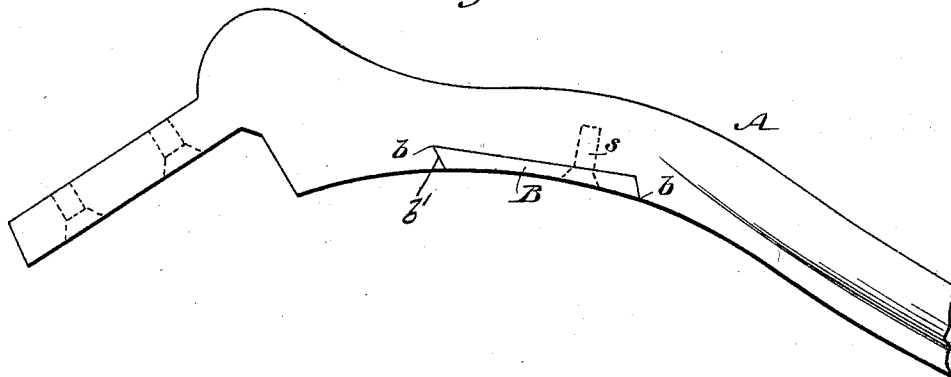


Fig. 2.

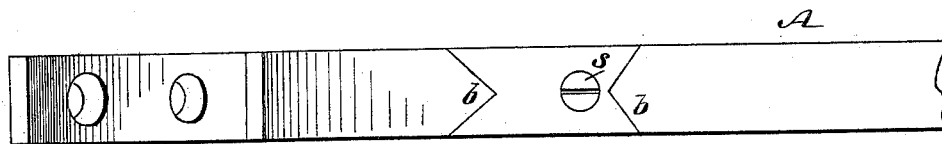


Fig. 3.

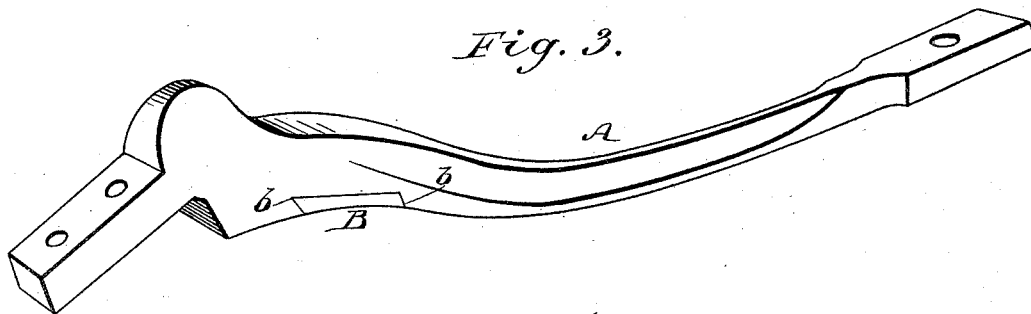
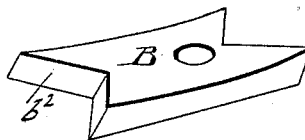


Fig. 4.



WITNESSES:

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RIB FOR SAW-GINS.

SPECIFICATION forming part of Letters Patent No. 417,849, dated December 24, 1889.

Application filed March 2, 1889. Serial No. 301,732. (No model.)

To all whom it may concern:

Be it known that I, THOMAS H. ABERNETHY, of Beam's Mills, in the county of Cleveland, and State of North Carolina, have invented a new and useful Improvement in Ribs for Saw-Gins, of which the following is a full, clear, and exact description.

This invention relates to the ribs of cotton-gins, in which revolving saws arranged to work in between the ribs are used to clear the cotton from its seeds.

The invention consists in the construction and arrangements of parts, as will be herein-after fully described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 represents a side view of a gin-rib, in part, having my invention applied; and Fig. 2, a face view of the same. Fig. 3 is a perspective view of the entire rib with the invention applied; and Fig. 4 is a perspective view, upon a larger scale, of the protecting plate or shoe for insertion in the rib.

A indicates a saw-gin rib of ordinary shape, generally, and construction, and designed to be used and applied in the gin as such ribs usually are. These ribs are made of cast-iron and ordinarily last but a very limited time—say two or three seasons—and have to be renewed or moved when worn by contact or action of the saws with them by skillful mechanics, which of course makes great expense. To obviate this I construct each rib A where the saws come in contact with or pass it with a recess on its inner face having >-shaped end walls *b b*, the upper one of which is undercut, as at *b'*, and insert within said recess a shoe or protecting-plate having >-shaped recesses in its ends, the edge of the upper recess being beveled, as at *b²*, to fit the

said under-cut. The shoe may be made of cast-steel by drop-forging, chilled cast-iron, or other suitable harder material than the body of the rib, and I secure the same therein at its lower end by a screw *s*, passing through an aperture in the plate. The recess may either be cast or cut in the rib, as desired. This shoe B forms a wear-plate, which protects the rib from being worn away by the action of the saw, and it is so shaped that it cannot move sidewise, and is securely fastened to its place by the screw *s*. Said shoe or wear-plate need be but of small thickness, therefore comparatively of but little expense, and may be applied and secured to the rib by any unskilled hand capable of using a screw-driver, and it may be as readily renewed, if necessary; but ordinarily it will not be required to be removed till the gin is worn out, the ribs when thus protected lasting the lifetime of the gin. When a rib as ordinarily constructed is worn out in a gin, it may be removed, and my improved rib with its protecting-shoe or wear-plate be inserted in its place.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A saw-gin rib provided with a transverse recess in its inner face having >-shaped end walls *b b*, the upper one of which is undercut, in combination with the plate B, having >-shaped notches in its ends to receive the ends *b*, the edge of the upper notch being beveled to fit under said under-cut, and the screw *s*, passed through the rear end of the plate into the rib, substantially as set forth.

THOMAS H. ABERNETHY.

Witnesses:

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