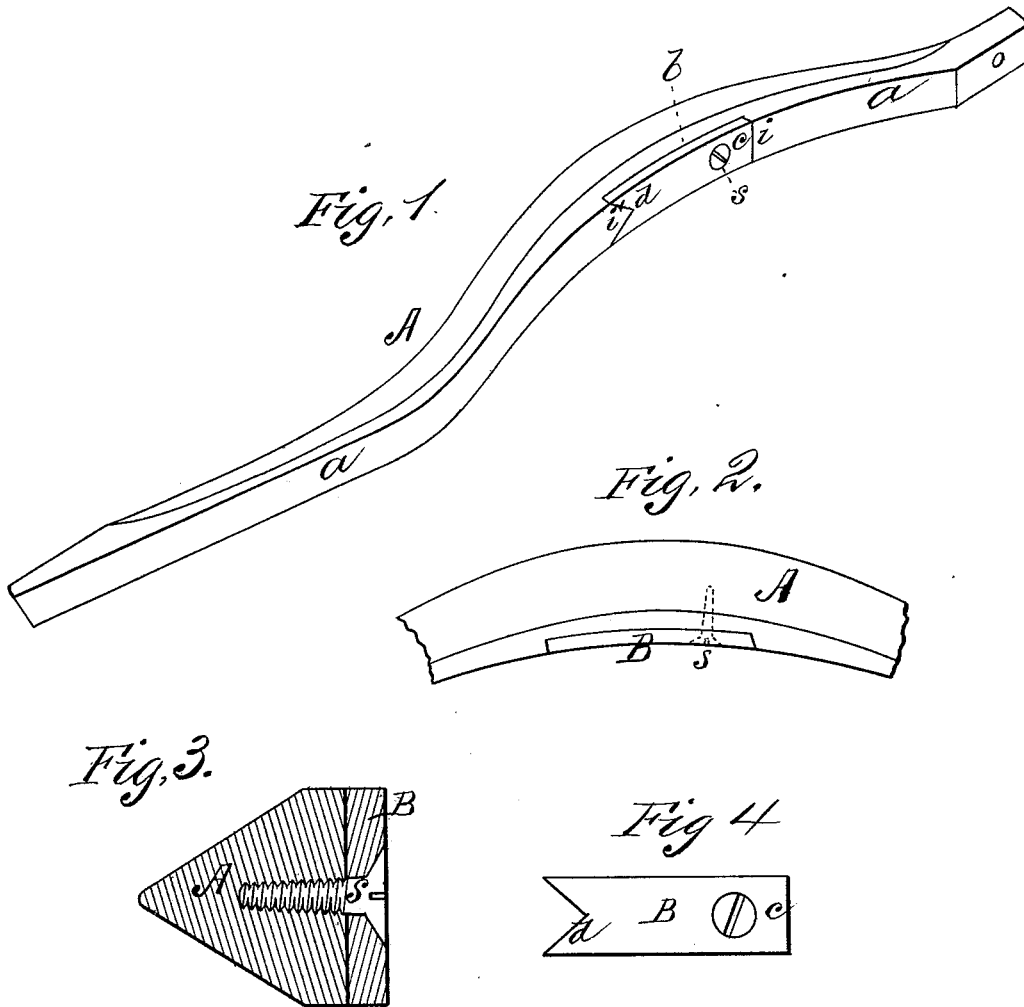


C. S. WILLIAMS.
Cotton-Gin Ribs.

No. 206,847.

Patented Aug. 6, 1878.



WITNESSES
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CORNELIUS S. WILLIAMS, OF FRANKLINTON, NORTH CAROLINA.

IMPROVEMENT IN COTTON-GIN RIBS.

Specification forming part of Letters Patent No. **206,847**, dated August 6, 1878; application filed January 5, 1878.

To all whom it may concern:

Be it known that I, CORNELIUS S. WILLIAMS, of Franklinton, in the county of Franklin and State of North Carolina, have invented a new and valuable Improvement in Gin-Ribs; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a perspective view of my invention. Fig. 2 is a side view thereof. Fig. 3 is a cross-sectional view, and Fig. 4 is a detail view of the wearing-plate.

This invention has relation to improvements in ribs for cotton-gins; and it consists in the construction and novel arrangement of the steel or hardened facing-plate notched in V form at one end, and confined in a recess of corresponding form in the face of the gin-rib by means of a screw through the other end, the notched or forked end of the face-plate being held against transverse displacement by the undercut form of said shoulder, all as hereinafter shown and described.

The object of this invention is to provide a wear-plate of convenient form, adapted to be readily secured in the gin-rib, and to be easily removed therefrom when necessary without disturbing the saws or ribs.

In the accompanying drawings, the letter A designates a gin-rib of the usual form, whereof the letter *a* designates the face, and *b* indicates a recess formed in the face of the rib at that point where it usually becomes worn away by the abrasive action of the cotton-seeds and grit. This recess is of oblong form, being transversely straight, and slightly beveled at one end, as shown at *i*, and angularly salient at the other, the angular shoulder *i'* projecting toward the recess, and being slightly undercut, as shown. B represents the detachable wear-plate, notched at *d* in one end in V form to fit the angular shoulder of the recess,

and adapted to take a purchase under said shoulder when forced up closely against the same by means of its opposite end *e*, which is slightly inclined or beveled when it engages with the beveled shoulder *i* of the recess when put in place in the rib.

In order to hold the wear-plate securely down between the two shoulders, a perforation is made through it at the end nearest the wedging-shoulder *i* and a screw is inserted, passing into the bottom of the rib-recess. The face and sides of the plate B are flush with the corresponding surface of the rib.

The plate thus constructed is regarded as being secure against outward displacement, as it is held in the recess by the wedging action of its beveled shoulder against the beveled end of the recess, which keeps it firmly under the angular shoulder of said recess at its other end, and by means of the screw, which holds it down to the rib at the wedging end. Lateral displacement is prevented by the notched face of the plate end, as above described.

I am aware that it is not new to provide a gin-rib with a hardened wear-plate having straight beveled ends, and therefore I do not broadly claim such invention; but

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

The combination, with the gin-rib-face recess *b*, having at one end the inclined or wedge-form shoulder *i*, and at the other the angular undercut shoulder *i'*, of the wear-plate B, having the beveled end *e*, the notched end *d*, and the fastening-screw *s*, serving to hold the wear-plate flush with and wedged tightly against the contiguous surfaces of the gin-rib at either end, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

CORNELIUS S. WILLIAMS.

Witnesses:

NORMAN LONG,
J. W. WELLERS.