

J. ROBISON.

Improvement in Cotton-Gin Ribs.

No. 132,217.

Patented Oct. 15, 1872.

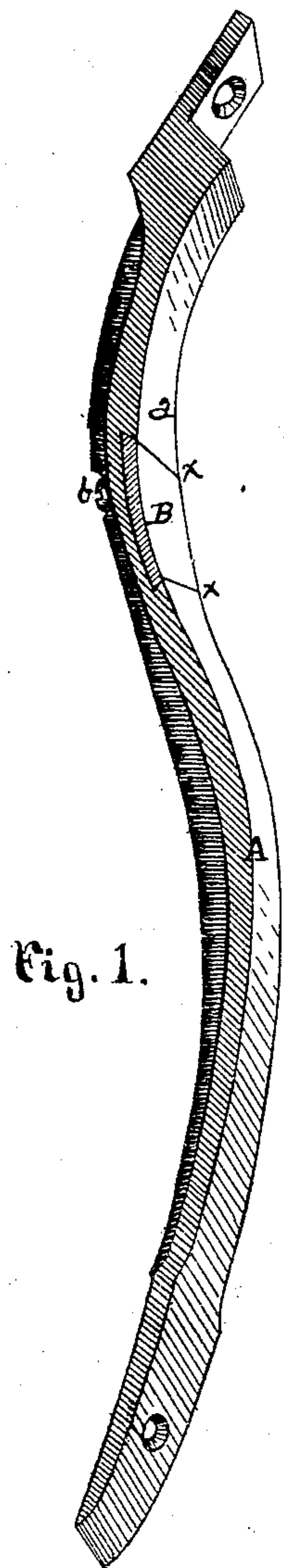


Fig. 1.

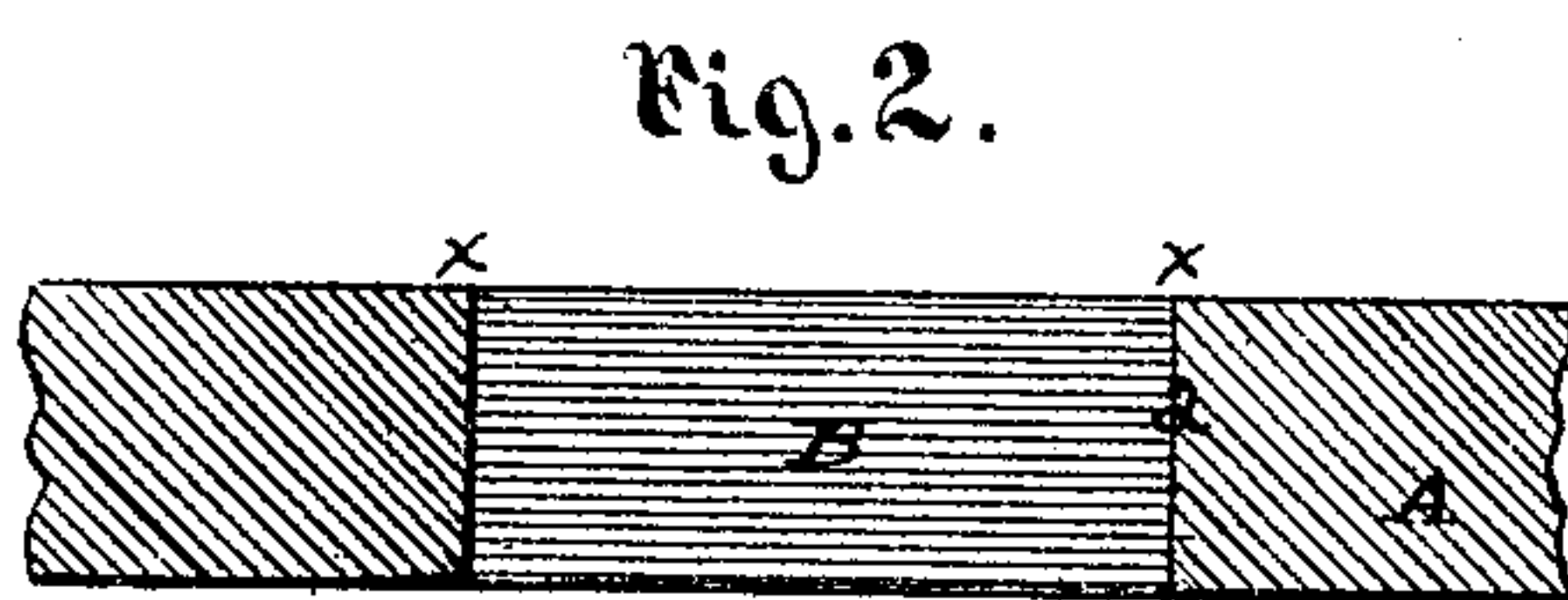


Fig. 2.

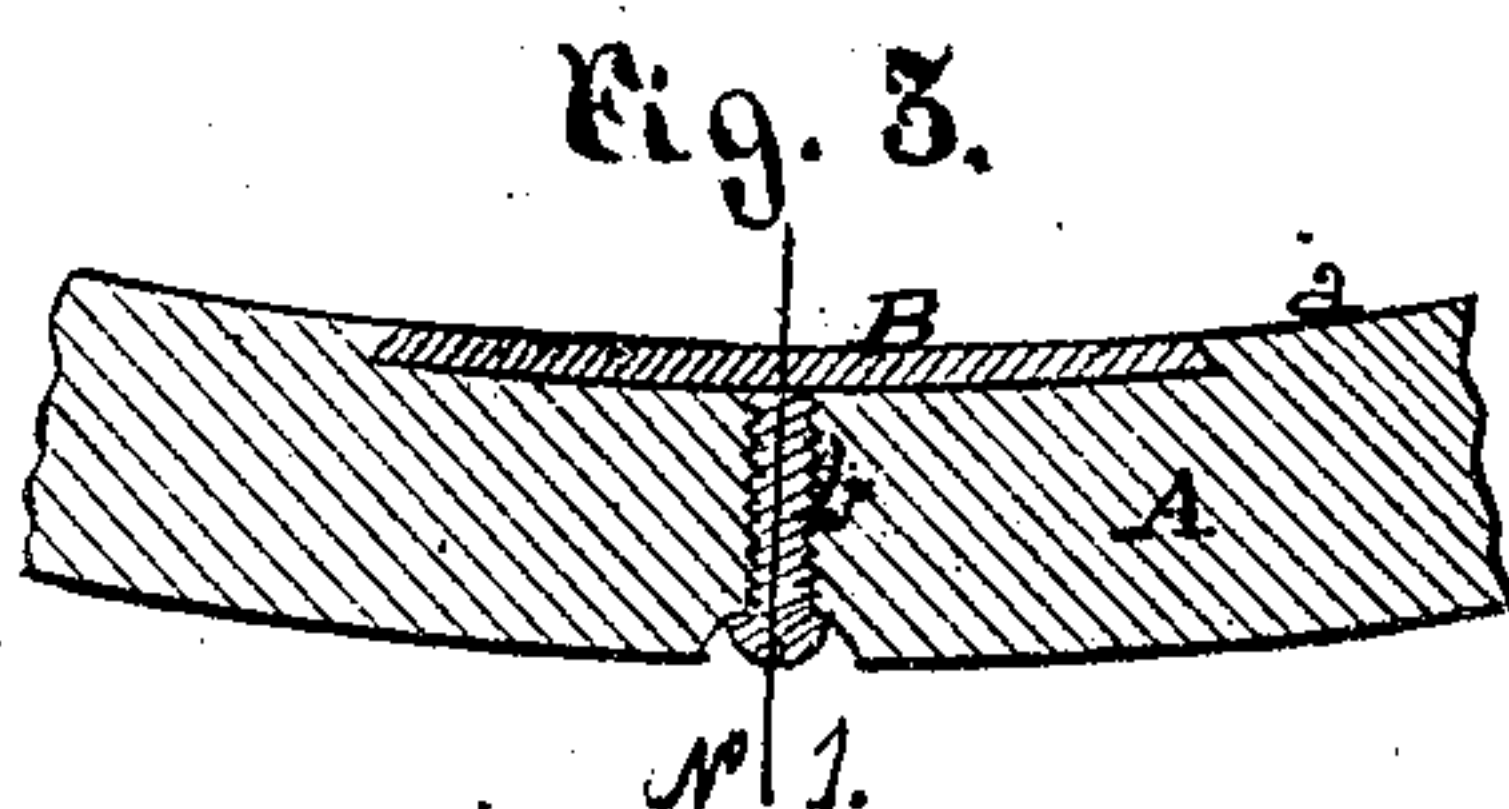
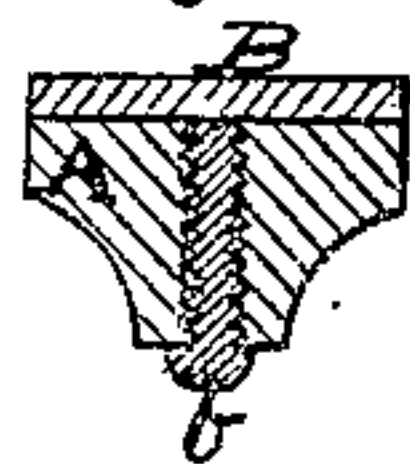


Fig. 3.

Fig. 4.



Witnesses, { Lewis T. Newell.  
                  { Cha. J. Seckus.

Joseph Robison  
by his Attorney Alex. Selkirk  
Inventor.

# UNITED STATES PATENT OFFICE.

JOSEPH ROBISON, OF ALBANY, NEW YORK.

## IMPROVEMENT IN COTTON-GIN RIBS.

Specification forming part of Letters Patent No. **132,217**, dated October 15, 1872.

*To all whom it may concern:*

Be it known that I, JOSEPH ROBISON, of the city and county of Albany, State of New York, have invented a new and useful Improvement in Ribs for Cotton-Gins; and I do hereby declare that the following is a description thereof, reference being had to the accompanying drawing forming a part of this specification, in which—

Figure 1 represents a perspective view of a rib of a cotton-gin embodying my invention; Fig. 2 is a face view of a section of the same; Fig. 3 is a longitudinal sectional view of the same; and Fig. 4 is a cross-sectional view taken at line No. 1 in Fig. 3.

My invention relates to the combination of a detachable piece of metal with the rib of a cotton-gin at the point of wear on the said rib, whereby the said rib may be retained in use in an individual machine for the period of the existence of the machine, and the worn portion be detached and replaced by a new piece in a ready and inexpensive manner.

In the drawing, A represents a rib of a cotton-gin made in the usual form, and used between the saws. *a* is the face of the said rib, which face (when the rib is placed in position between the saws) will be presented to the cotton, and by use a portion of the rib between the points *x x* (on the face) becomes worn by the action of the cotton, seeds, and dirt, abrading the rib at that point, so that in time the ribs must be removed and replaced by new ones. In the face *a* of the rib A, and between the points *x x*, (the place of wear,) I set in the detachable piece B, which piece may be of hardened steel or chilled iron. The said detachable piece is so arranged that its face will be flush and even with the face of the rib, and is held in place by dovetails, as shown in Figs. 1, 2, and 3. *b* is an impinging-screw, entering the rib A from its back, into which it screws, and the point of the said screw is made to impinge on the back of the plate B, which would

render the said detachable piece secure with the rib and give easy facility for the removal or replacement of the pieces when desired.

I am aware that hardened metal detachable pieces have been used in the said ribs at the point of its wear by the cotton and grit therein; but such detachable pieces were placed in their recesses from the face side, and were secured therein by a screw working from the face of the said detachable plate into the rib, and thus secured its attachment has always depended wholly on the screw, and the head of the screw, if not of steel, would soon wear away; and whether of steel or iron, the said head would be liable to catch the cotton, and was thereby apt to be worked loose. By my improved method of securing the said piece the said piece is firmly held in place without any possibility of becoming loosened by the action of the cotton, and the face of the said piece will not present any obstacle for catching the cotton.

It is therefore seen that by the improvements in my invention the original ribs of a cotton-gin can be used as long as the machine exists, and the labor and expense attending the replacing of the worn ribs by new ones, as heretofore required in cotton-gins, will be obviated. The detachable piece, receiving all wear, can at any time be removed and replaced at but a trifle of cost.

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

The combination of the detachable piece B, made with the dovetailed holding edges, in combination with the rib A provided with the dovetail recess and set-screw *b*, when all are arranged and constructed substantially as and for the purpose set forth.

JOSEPH ROBISON.

Witnesses:

ALEX. SELKIRK,  
CHAS. SELKIRK.