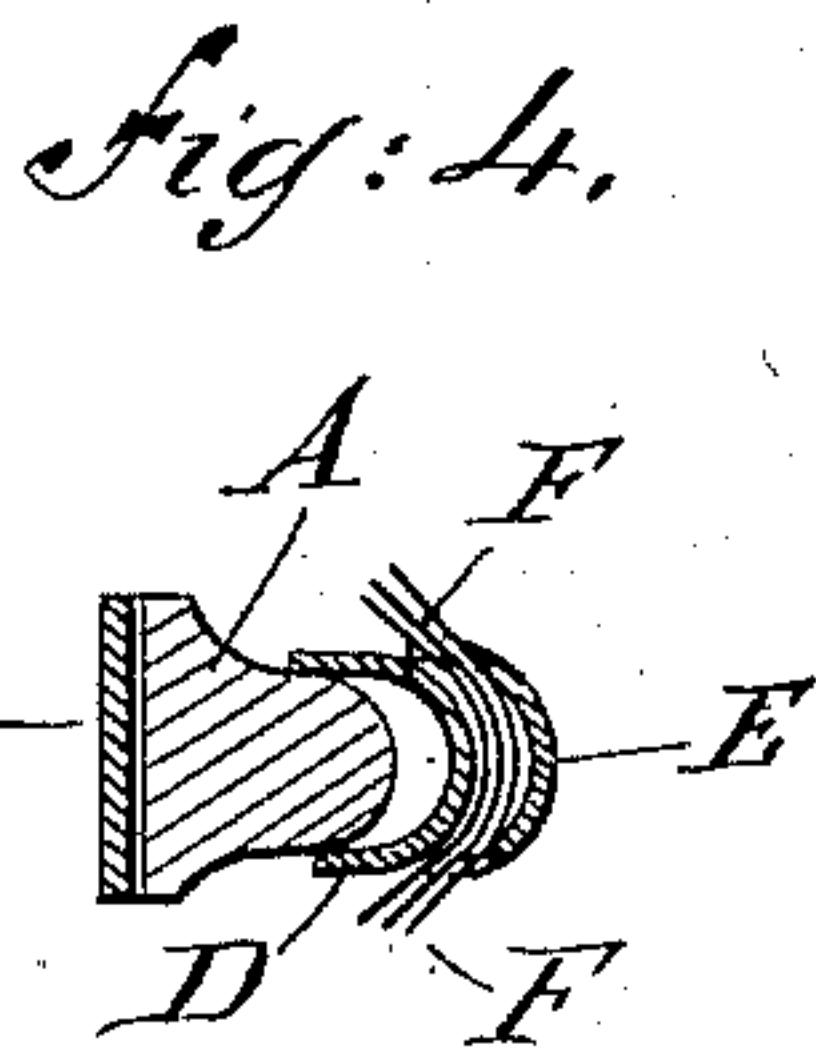
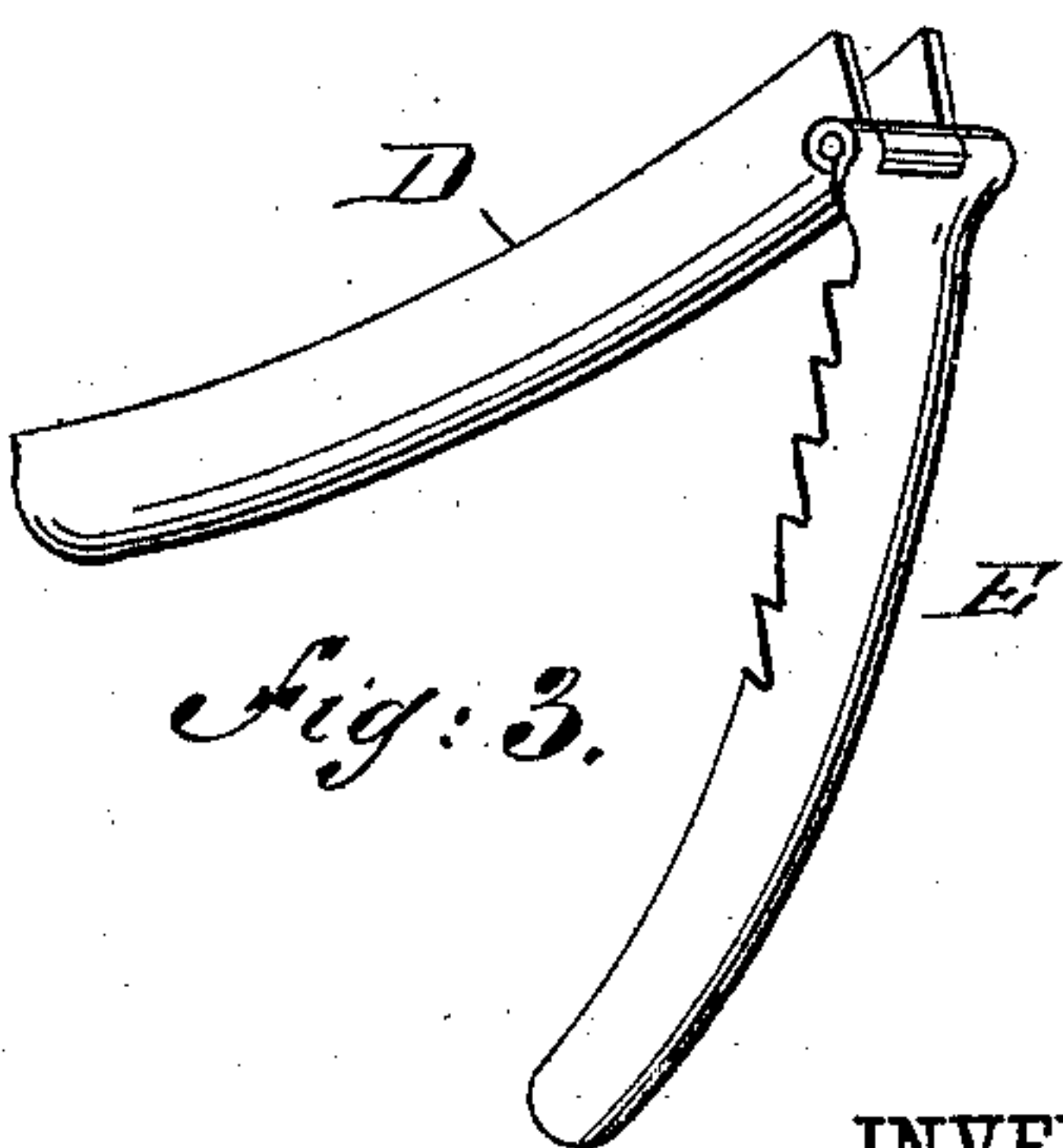
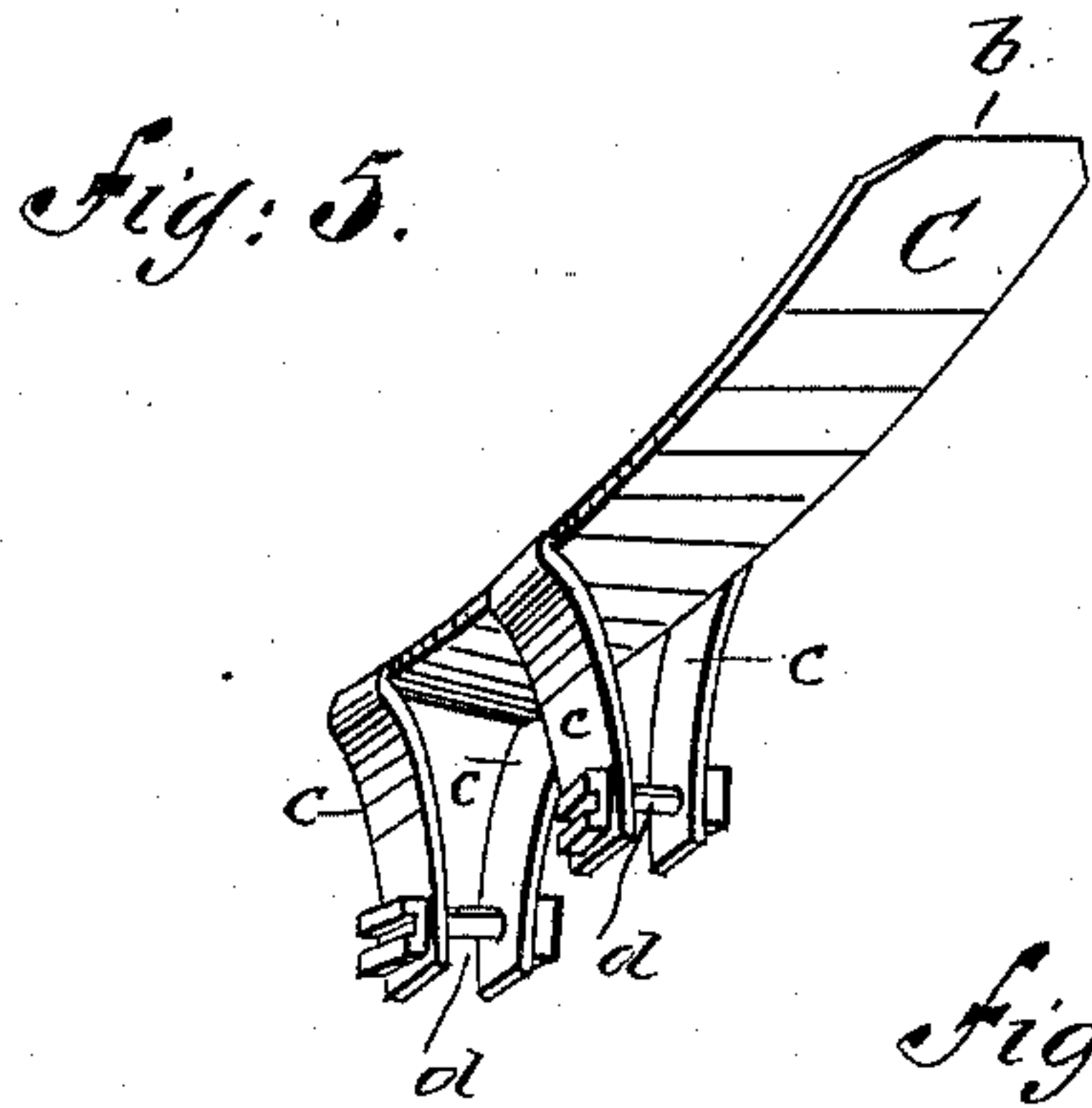
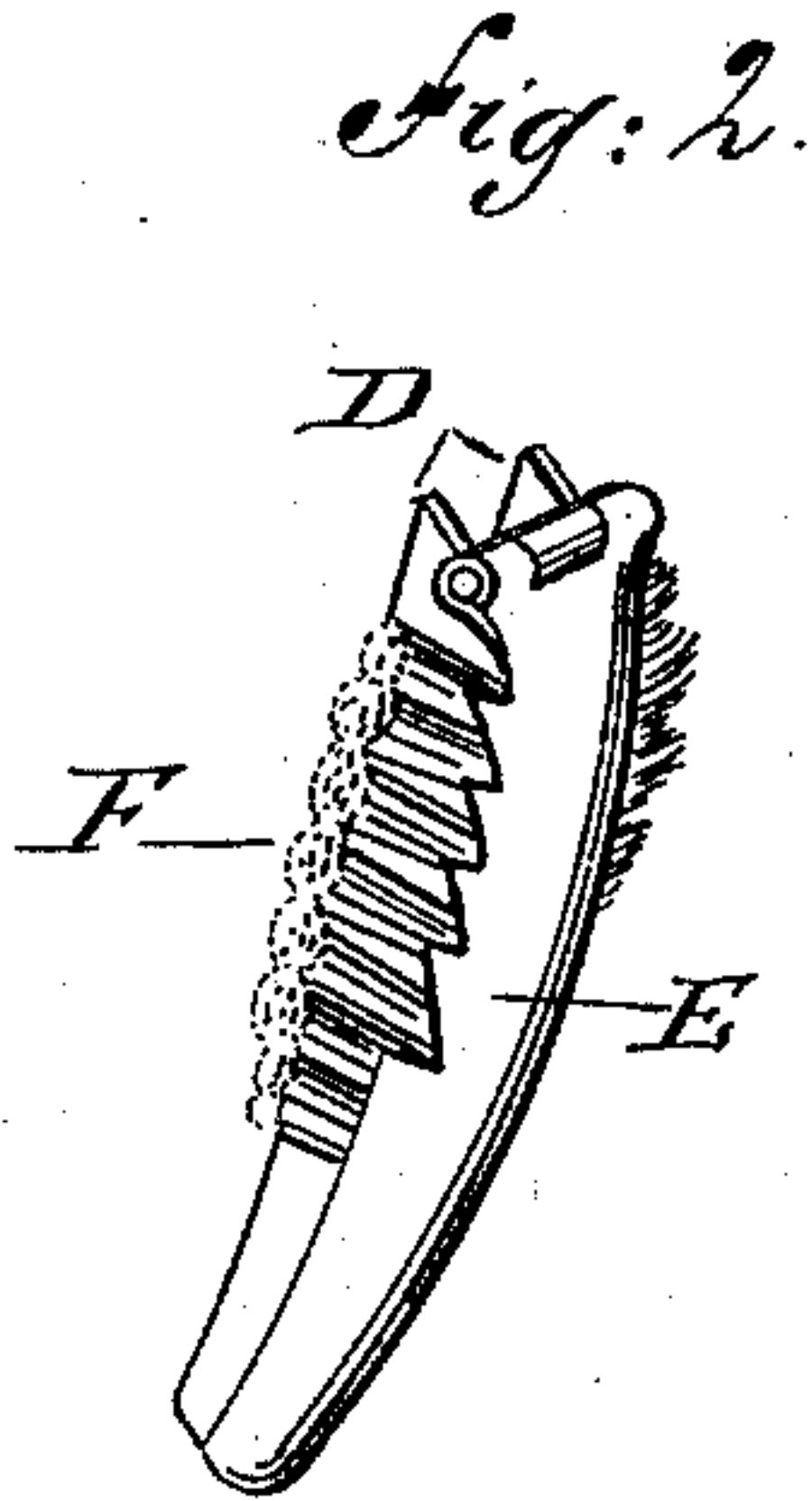
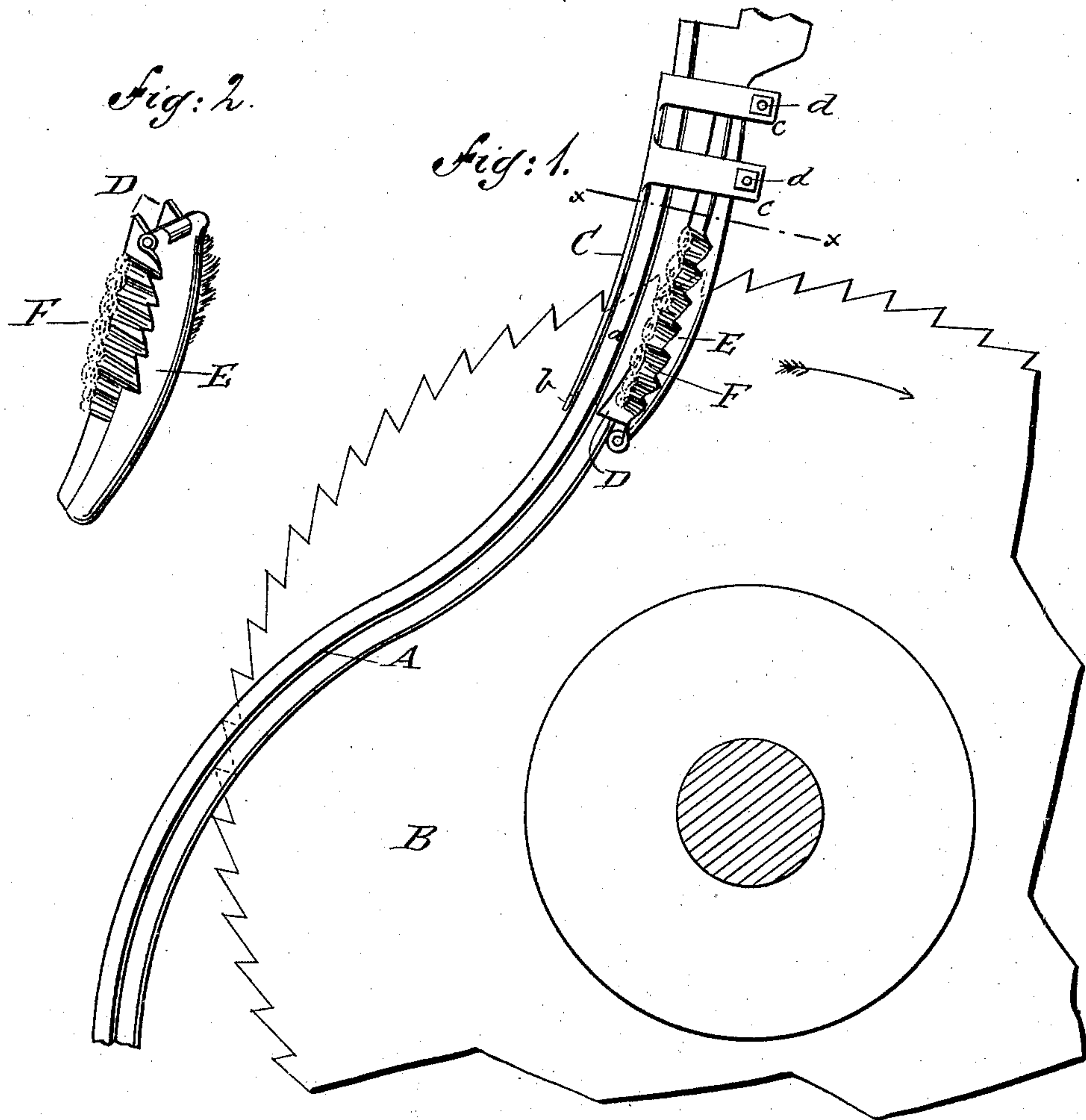


(No Model.)

J. E. KEILY.
COTTON GIN RIB ATTACHMENT.

No. 370,544.

Patented Sept. 27, 1887.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN E. KELLY, OF MARSHALLVILLE, GEORGIA, ASSIGNOR TO HIMSELF
AND JOHN J. MURPH, OF SAME PLACE.

COTTON-GIN-RIB ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 370,544, dated September 27, 1887.

Application filed August 24, 1886. Serial No. 211,746. (No model.)

To all whom it may concern.

Be it known that I, JOHN EDWARD KELLY, of Marshallville, in the county of Macon and State of Georgia, have invented a new and Improved Cotton-Gin-Rib Attachment, of which the following is a specification, reference being had to the drawings hereto annexed, in which—

Figure 1 is a broken side elevation of a cotton-gin saw and a rib with my improvement applied thereto. Fig. 2 is a detail perspective view of the fire-extinguishing part of the device. Fig. 3 is a perspective view of the same, showing the jaws open and the bristles removed. Fig. 4 is a transverse section taken on the line *xx* in Fig. 1. Fig. 5 is an inverted perspective view of the clip for embracing the gin-rib and holding the several parts in the position of use.

Similar letters of reference indicate corresponding parts in all the figures.

The object of my invention is to provide simple and efficient devices for repairing the worn parts of gin-ribs, for extinguishing fires which frequently occur in cotton-gins, and for improving the staples.

The invention consists in the peculiar construction and combination of parts, as hereinafter fully described, and pointed out in the claims.

The gin-rib A is of the usual form and construction, and is held in the gin in the usual way between gin-saws B. The part *a* of the rib near the periphery of the saw is that which receives the greatest amount of wear from the passing cotton. To compensate for this wear I apply to the upper surface of the gin-rib a spring-tempered steel wear-plate, C, having a feather-edge, *b*, on the lower end for facilitating the passage of cotton over the plate.

Ears *c*, formed integrally with the plate C, extend in rear of the rib A, and are apertured near their ends for receiving the bolts *d*, by which the ears are drawn toward each other and made to clamp the rib A. For convenience in applying the plate, the bolts *d* are provided with square nicked heads, which admit of the use of either a wrench or a screw-driver.

To the rear side of each gin-rib A is fitted a plate, D, of U-shaped cross-section, and to one end of the said plate is hinged a grooved arm, E, also of U-shaped cross-section, which fits upon the plate D, near its free end, but is offset near the middle of its length to make room for a bundle of bristles, F, which are clamped between the arm and the plate, which thus forms a bristle-holder. To insure a firm hold on the bristles, the inner edges of the grooved arm, between the offset and the hinged end, are serrated. The free extremity of the grooved arm and the corresponding portion of the plate D are clamped to the rear side of the rib A by the ears *c* and bolts *d*, in position to hold the bristles F between the sides of adjacent saws. The bristles thus held may be readily removed and replaced after loosening the bolts *d* and withdrawing the bristle-holder. The bristles instantly put out any fire carried by the cotton passing between them, and the plate C serves as an efficient wearing-surface.

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

1. The wear-plate C, formed with the feather edge *b* and the apertured ears *c*, and provided with the bolts *d*, substantially as herein shown and described.

2. The combination, with a cotton-gin rib, of the U-shaped plate D, the offset grooved and serrated arm E, hinged to the plate D, the bundle of bristles F, and plate C, provided with ears *c*, and the bolts *d*, substantially as specified.

3. A bristle-holder for cotton-gin ribs, consisting of the U-shaped plate D and the grooved and serrated arm E, hinged to the plate D, substantially as herein shown and described.

4. A wear-plate and bristle-holder for cotton-gin ribs, consisting of the plate C, having the apertured ears *c*, the bolts *d*, the U-shaped plate D, and serrated arm E, hinged to the plate D, substantially as herein shown and described.

JOHN E. KELLY.

Witnesses:

N. C. BRYAN,
C. A. SPERRY.