

(No Model.)

O. HENDRICK.
TENON EXTRACTOR.

No. 295,170.

Patented Mar. 18, 1884.

Fig. 1.

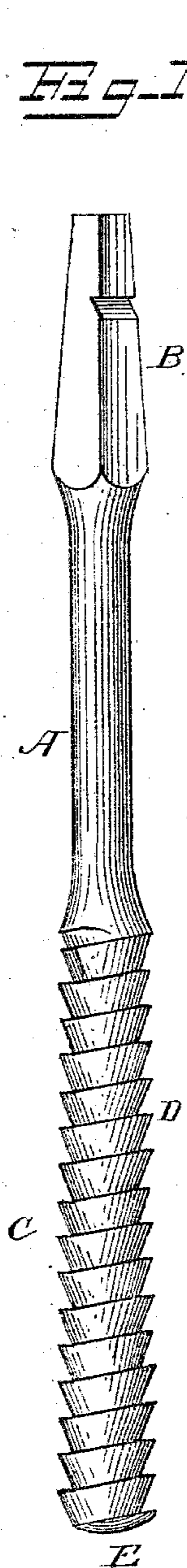


Fig. 2.

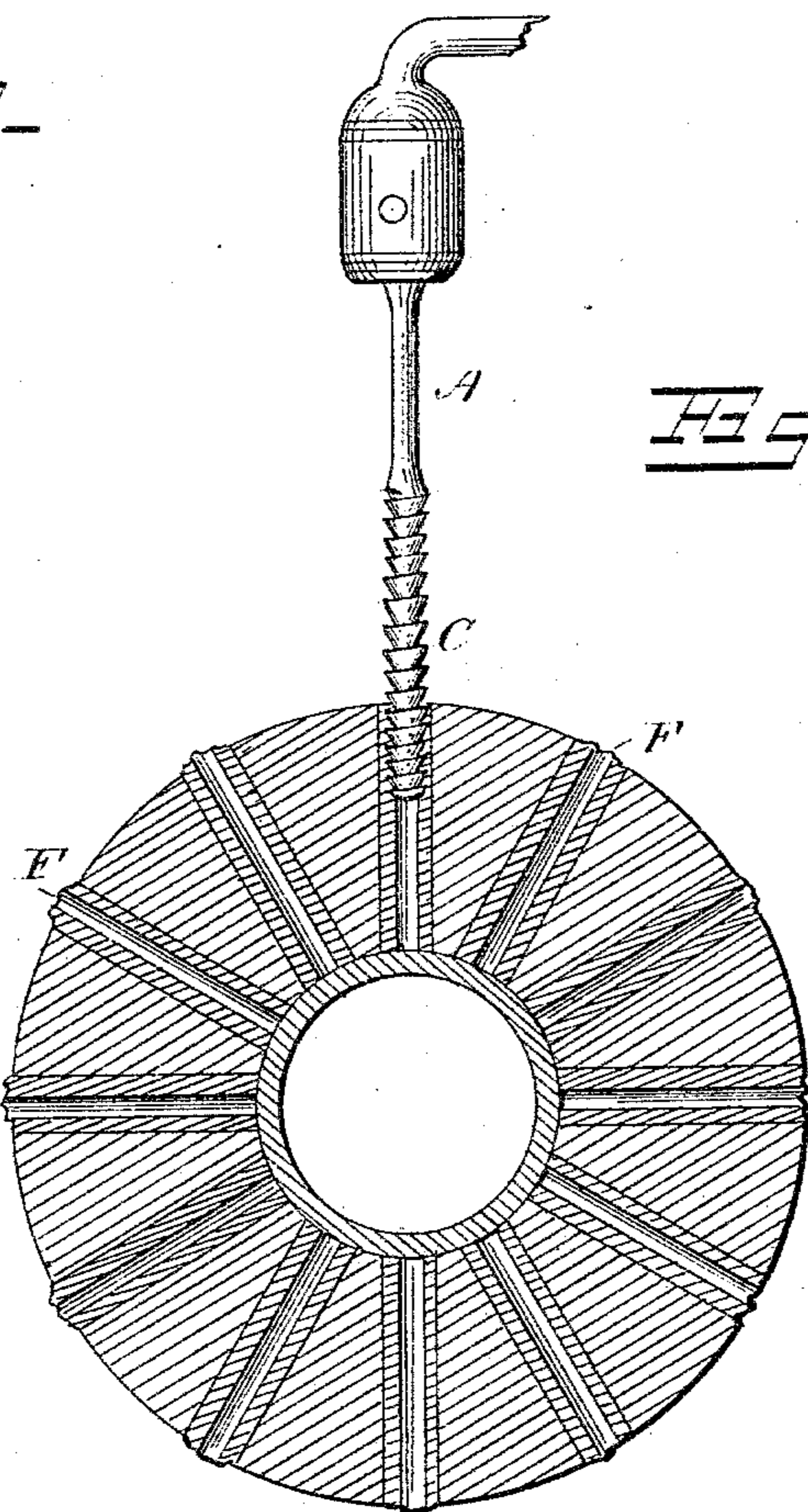
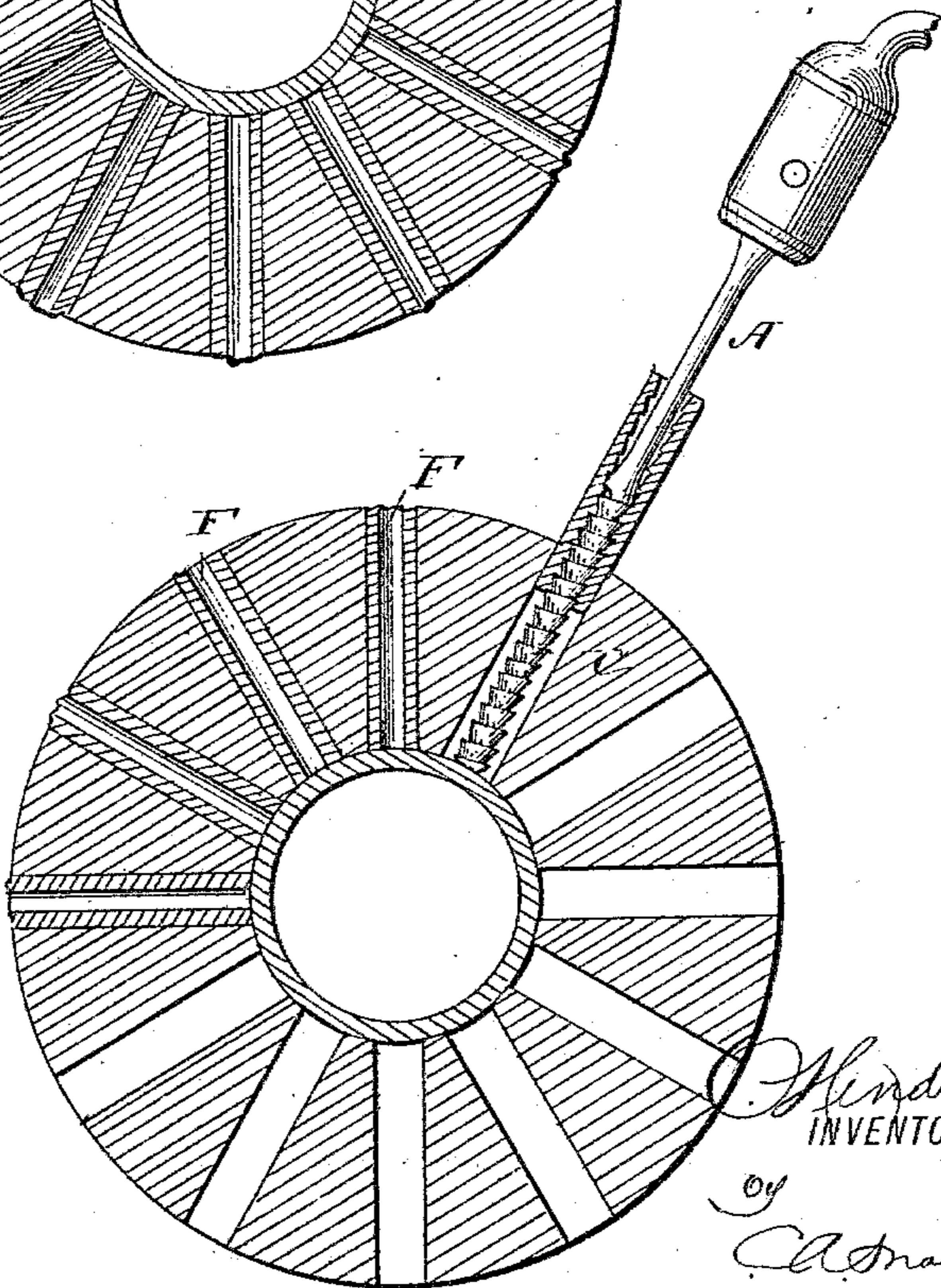


Fig. 3.



WITNESSES
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UNITED STATES PATENT OFFICE.

OBADIAH HENDRICK, OF MACON, MISSISSIPPI.

TENON-EXTRACTOR.

SPECIFICATION forming part of Letters Patent No. 295,170, dated March 18, 1884.

Application filed July 21, 1883. (No model.)

To all whom it may concern:

Be it known that I, OBADIAH HENDRICK, a citizen of the United States, residing at Macon, in the county of Noxubee and State of Mississippi, have invented a new and useful Tenon-Extractor, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to an improved apparatus or device for removing broken-off tenons from the hubs of vehicle-wheels; and it has for its object to produce a simple and inexpensive device by which this may be accomplished rapidly, easily, and with less danger of injuring the hub than by chiseling the broken-off pieces out, as is commonly practiced, as will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, Figure 1 is a side view of my improved tenon-extractor, and Figs. 2 and 3 are sectional views illustrating the operation of the same.

The same letters refer to the same parts in all the figures.

A in the drawings designates the body of my improved tenon-extractor, which consists of a stem or shank having its upper end squared, as at B, so as to adapt it to be used in an ordinary brace, and terminating at its lower end in a cylindrical bit, C, having a spiral flange or thread, D, the upper edge of which is "square," or at right angles to the vertical axis of the bit, as shown. The lower end of the bit C ends in a smooth and blunt point, E.

The operation of my invention will be readily understood by referring to the drawings hereto annexed. When the spokes of a wheel are broken, and it is desired to remove the tenons from the mortises in the hub in order to repair the wheel, I first bore a hole in the tenon reaching to the axle-box, and of slightly smaller diameter than the cylindrical bit C. This hole or opening is shown at F in Fig. 2. Placing the extractor A in an ordinary brace, the next step is to screw it into the opening

F until its blunt end E rests and bears against the axle-box, as shown in Fig. 3 of the drawings. By continuing the revolution of the extractor the counter-pressure exerted by the square spiral flange against the tenon will loosen the latter and drive it out of the mortise, as indicated in Fig. 3. This operation may be accomplished in a very short time, and without any possibility of injury to the hub, which is always liable to occur when the tenon ends are chiseled out, as ordinarily practiced.

I claim as my invention and desire to secure by Letters Patent of the United States—

1. The herein-described device for extracting broken-off tenons from the hubs of vehicle-wheels, the same consisting of a stem or shank squared at its upper end for insertion into a brace, and having at its lower end a cylindrical bit with a smooth blunt point, and provided with a spiral flange or thread, the upper edge of which is square, or at right angles to the vertical axis of the bit, substantially as and for the purpose herein shown and specified.

2. The herein-described process of extracting broken-off tenons from the hubs of vehicle-wheels, the same consisting in first boring through the said tenon a hole extending to the axle-box, and next driving into the said hole a screw-threaded or spirally-flanged bit of slightly larger diameter than the said hole, and continuing the revolution of the said bit when it reaches and presses against the axle-box, whereby the counter-pressure thus generated shall serve to drive the tenon out of the mortise, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

OBADIAH HENDRICK.

Witnesses:

RUDOLPH HAUENSTEIN,
ROBERT JEFFERSON ELLISON.