

(No Model.)

W. A. JORDAN.

NUT WASHER.

No. 308,562.

Patented Nov. 25, 1884.

Fig 1.

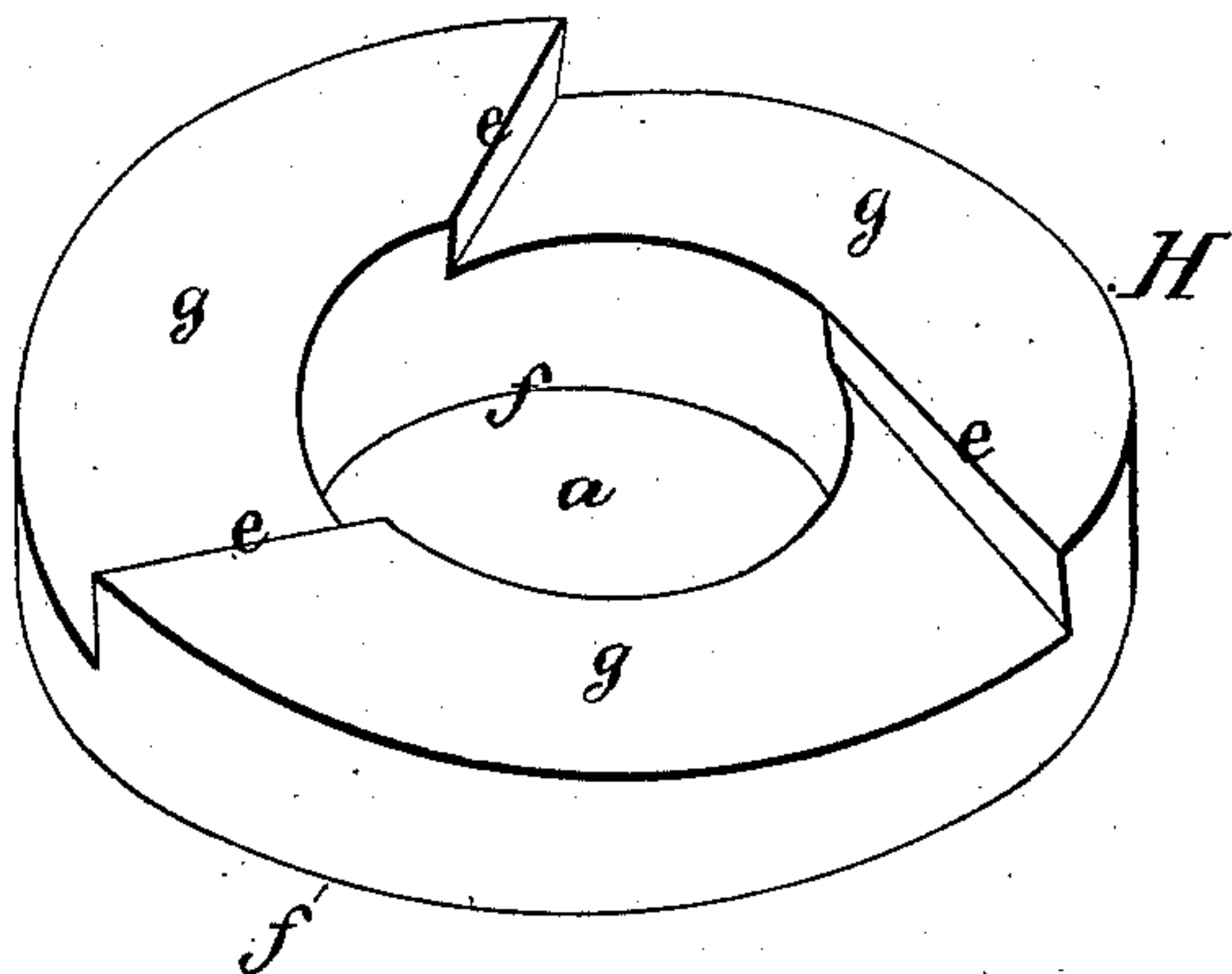


Fig 2.

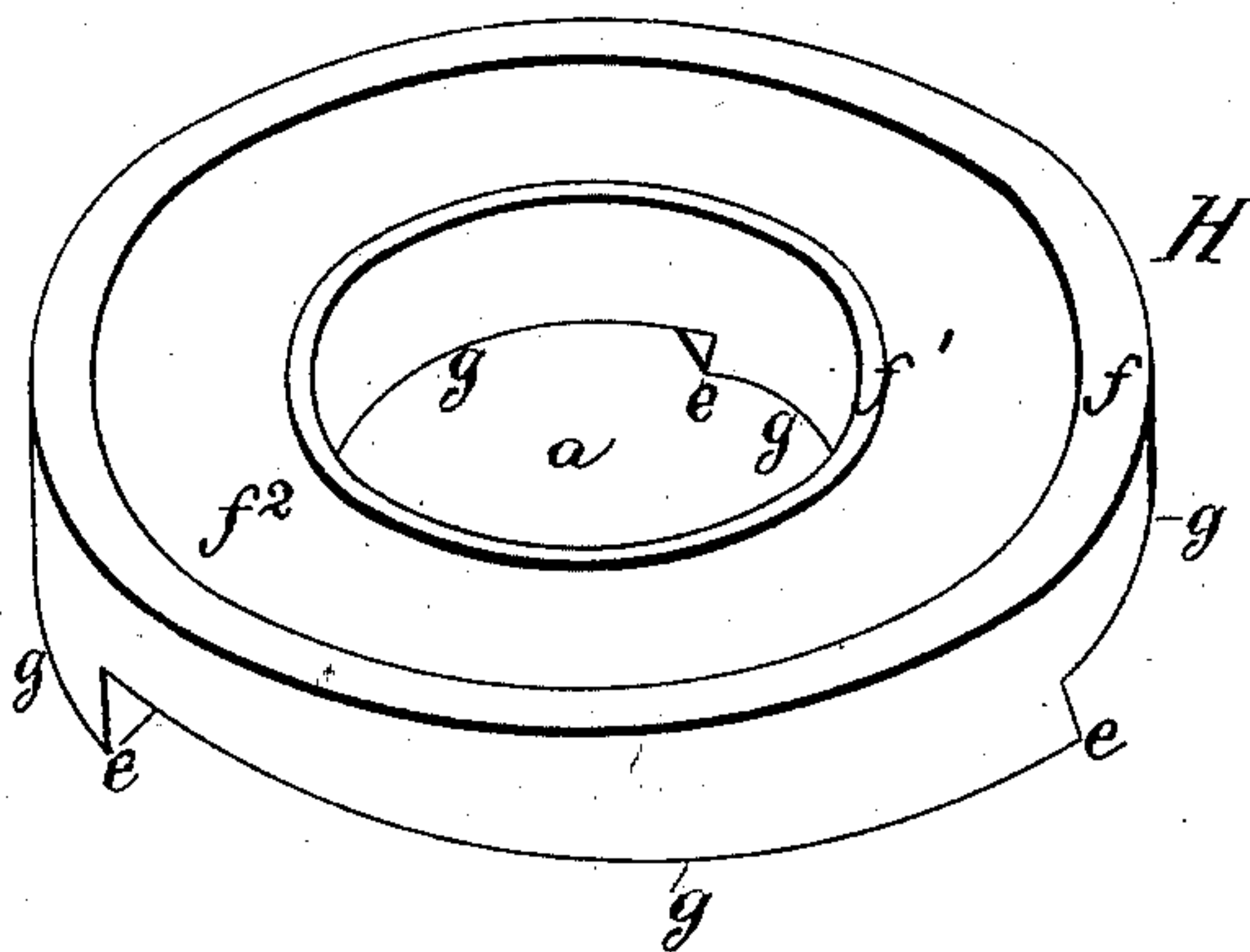
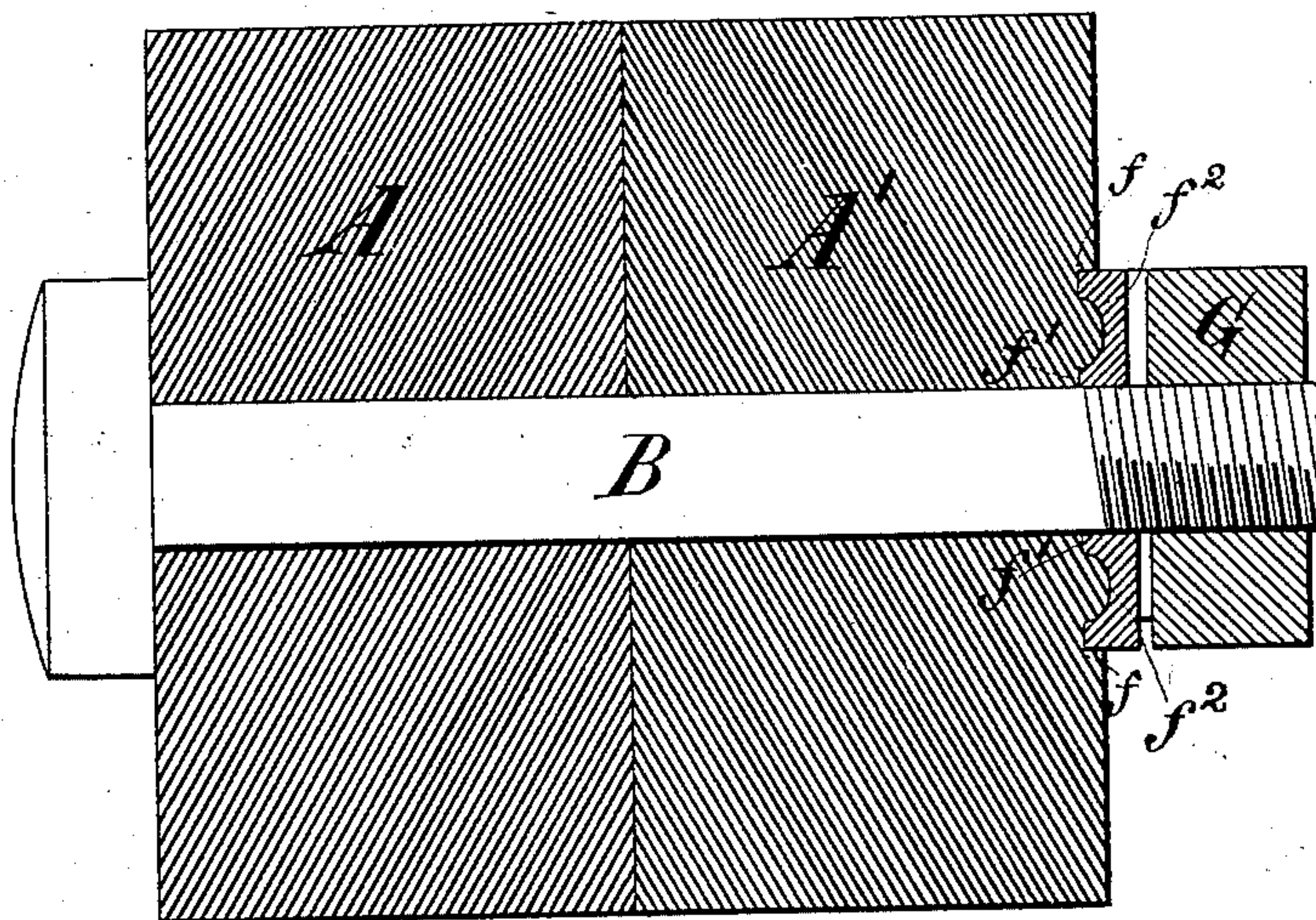


Fig 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM A. JORDAN, OF NEW ORLEANS, LOUISIANA.

NUT-WASHER.

SPECIFICATION forming part of Letters Patent No. 308,562, dated November 25, 1884.

Application filed May 3, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. JORDAN, a citizen of the United States, residing at New Orleans, in the parish of Orleans and State of Louisiana, have invented a new and useful Improvement in Nut-Washers, of which the following is a specification.

The object of my invention is the production of a nut-washer which shall have one operative face adapted to be screwed up in contact with wood, and another adapted to be screwed up in contact with metal, and thus the same washer be applicable for both uses in a more desirable manner than heretofore.

In the accompanying drawings, Figure 1 is a perspective view showing that face of my improved washer which is adapted to be screwed up against metal in the act of bolting together plates or other pieces of metal, and Fig. 2 is a like view showing the reverse face of my said washer, the same being more particularly adapted to be screwed up in contact with a piece of wood, as signified in Fig. 3; and Fig. 3 shows two pieces of wood bolted together, and with the operative face shown in Fig. 2 screwed up against one of the said pieces, as shown in Fig. 3.

In the figures, H indicates in general outline a disk or washer of metal having a central perforation, *a*, for the passage through it of the bolt B, when in use, for bolting together two pieces of wood, A A', as signified in Fig. 3. The exposed working-face shown in Fig. 1 presents three inclined planes, as *g g g*, ter-

minating in sharp or cutting raised edges *e e*, which have a forward pitch, as shown, whereby the same are the better adapted to cut into a metal surface with a drawing cut under a back strain on the washer after having been screwed up and in the act of use. The working-face represented in Fig. 2 shows plane-surfaced narrow annular rib portions, as *f f'*, with an intervening groove or valley, as *f''*, into which the wood will become seated when such working-face is screwed up against the wooden piece A', as represented in Fig. 3. The annular ribs *f* and *f'*, being made narrow, will readily enter the wood under pressure from the screw-nut G, while the groove or valley *f''* affords a large impact surface for the wood forced into it, thereby, through frictional contact, steadily holding the washer against movement after having been once screwed up, as signified in Fig. 3.

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

As a new article of manufacture, the disk or washer H, comprising the inclined surfaces *g g*, raised cutting-edges *e e e*, having a raking-pitch on one face, and the annular ribs *f f'*, with valley or groove *f''* between them on the opposite working-face, substantially as described.

WILLIAM A. JORDAN.

Witnesses:

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