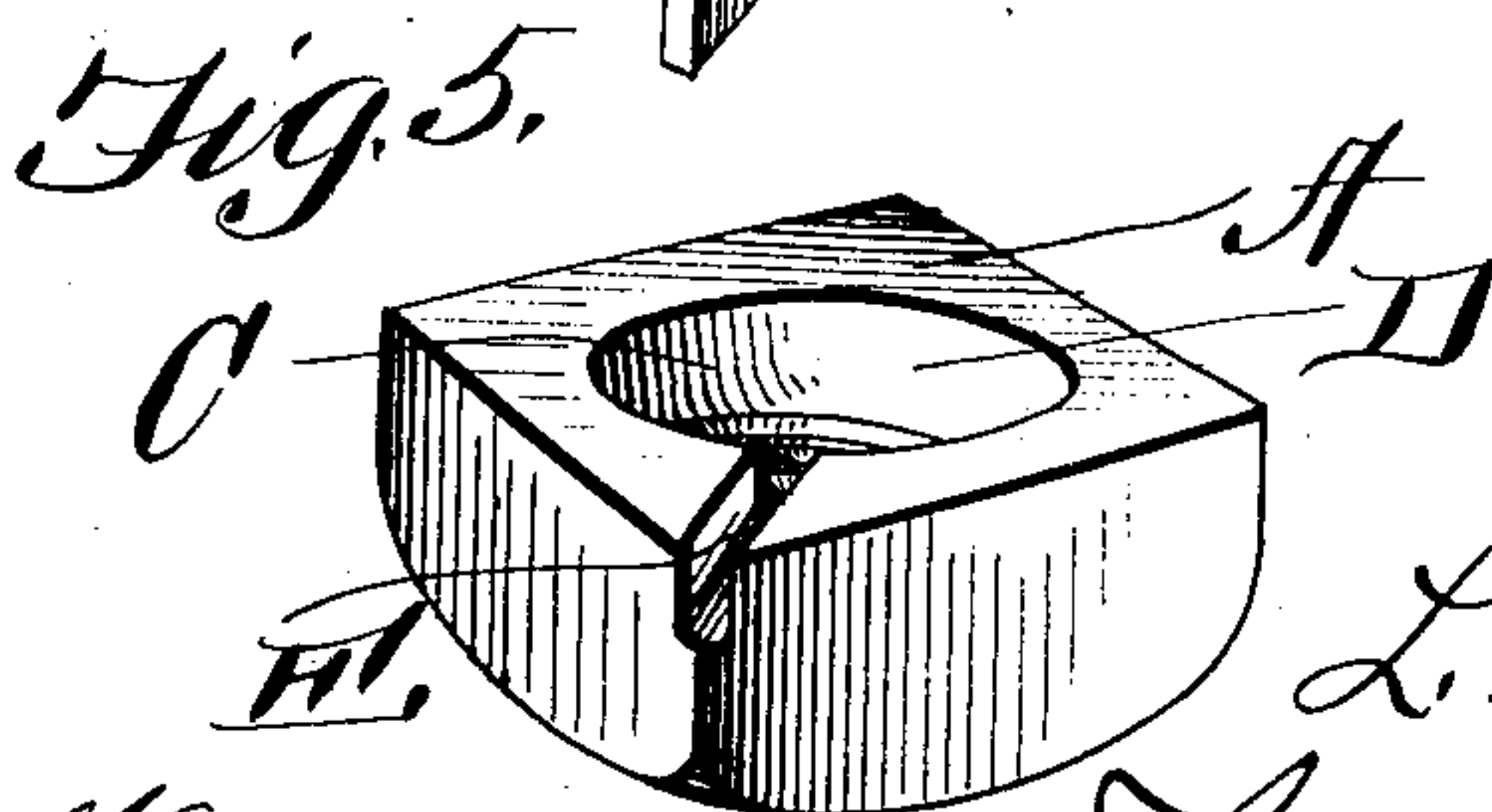
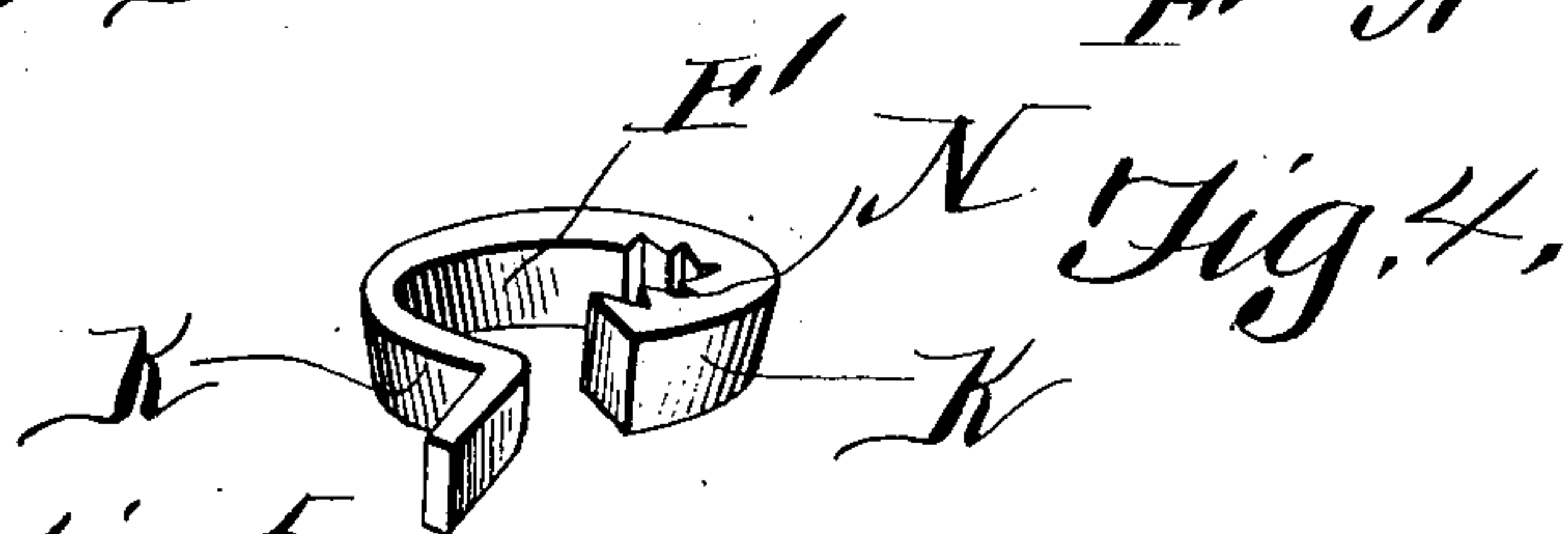
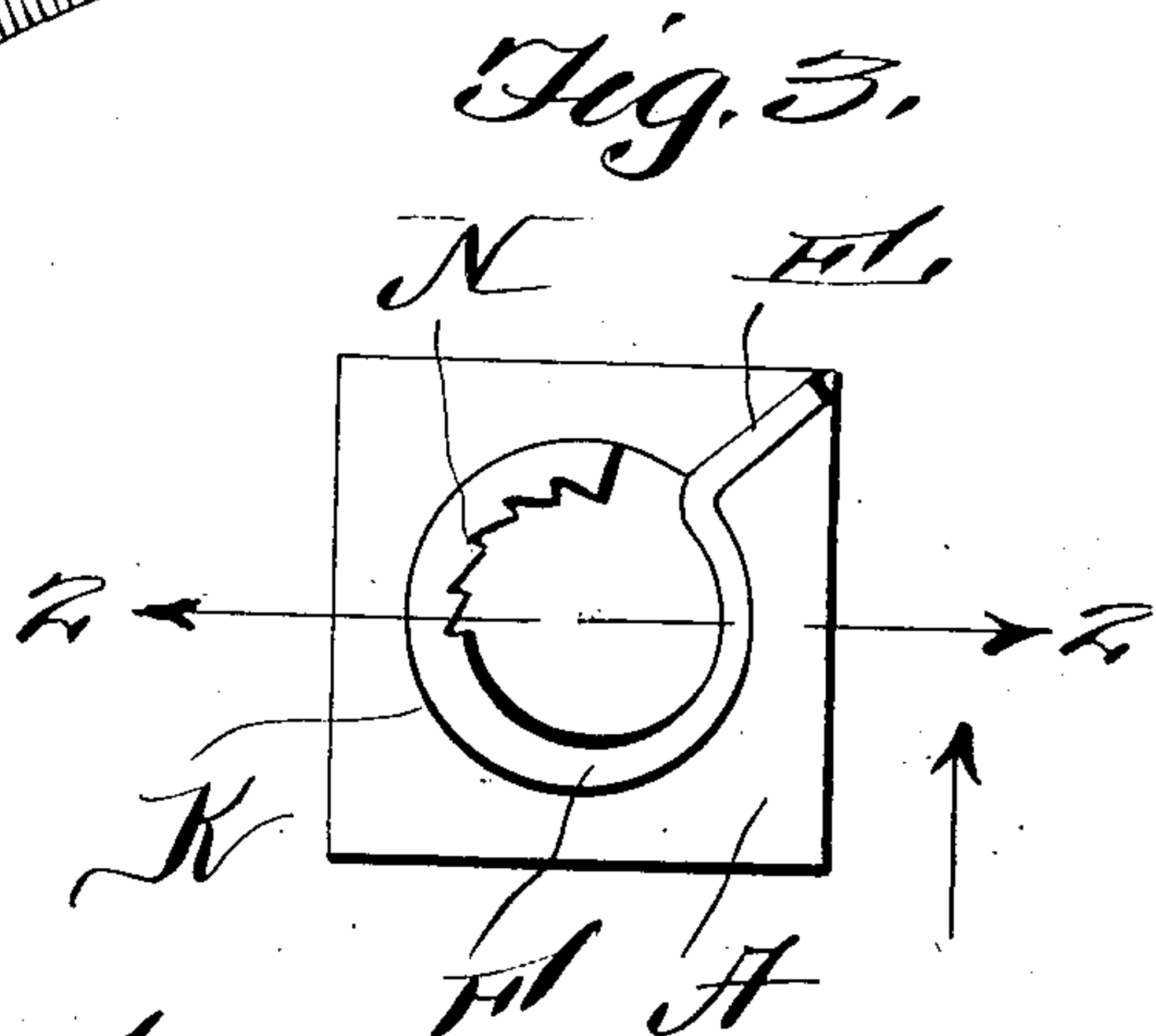
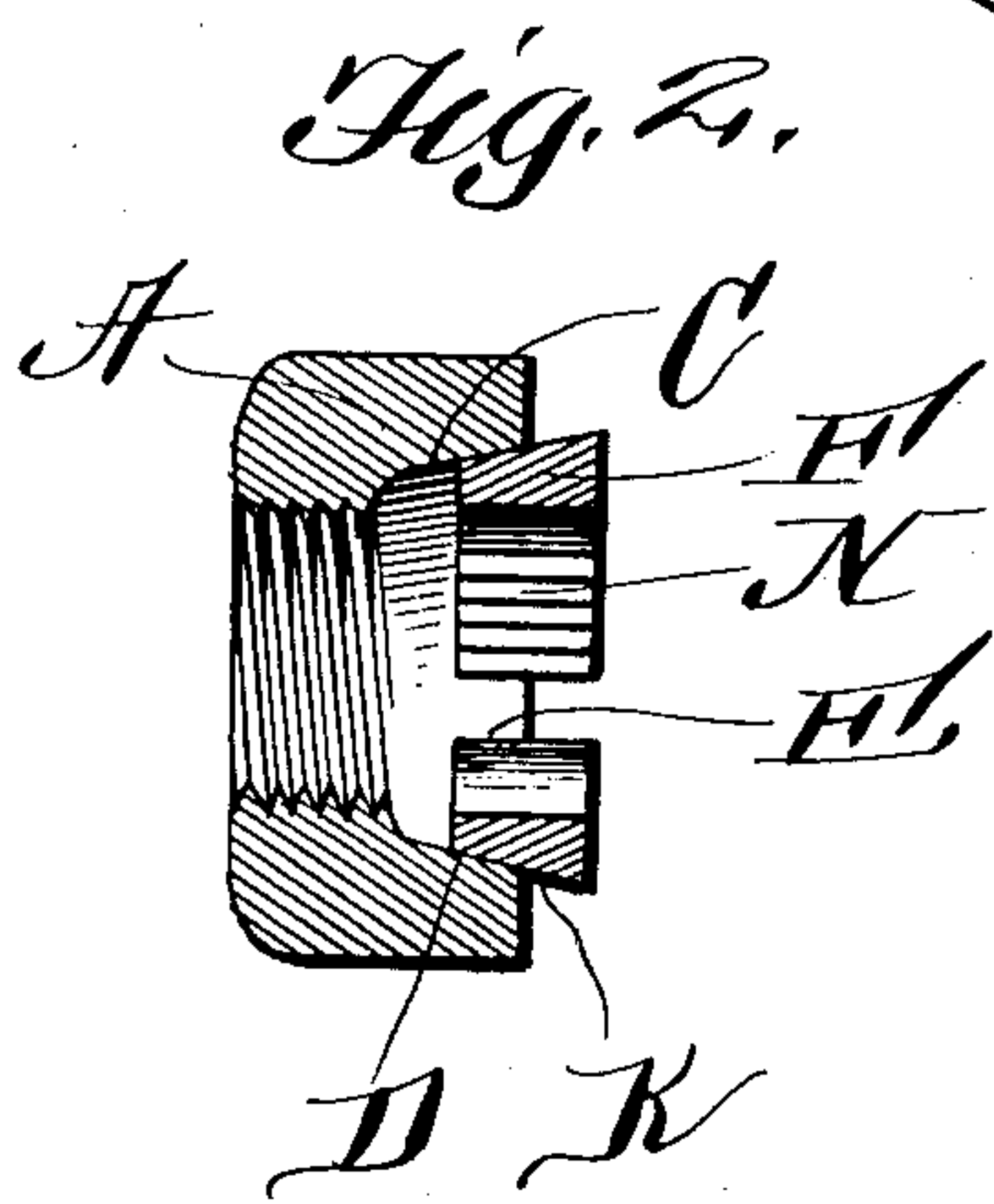
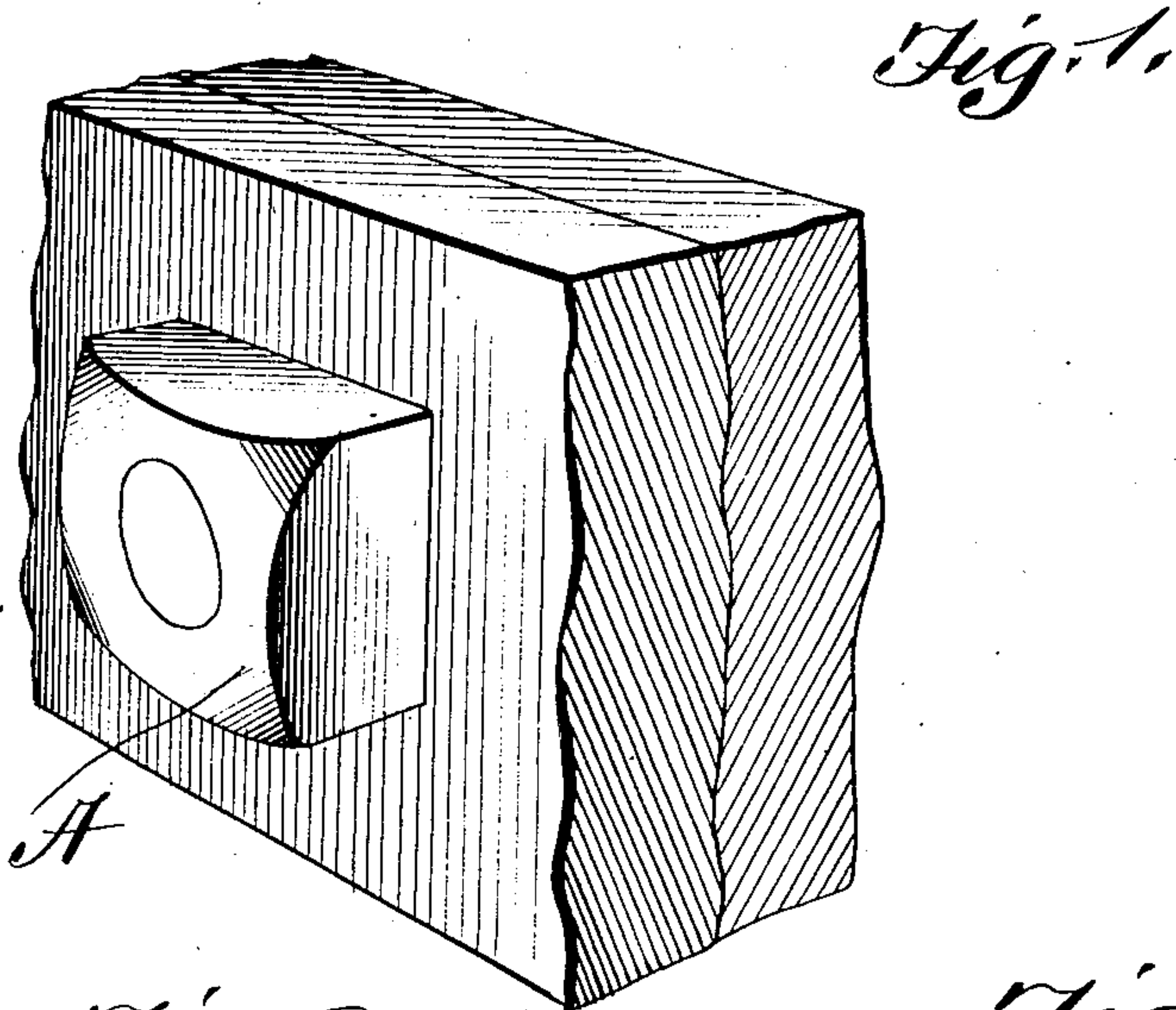


No. 814,199.

PATENTED MAR. 6, 1906.

L. M. GALLIHER.
SELF LOCKING NUT.
APPLICATION FILED APR. 7, 1905.



Witnesses
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UNITED STATES PATENT OFFICE

LAWRENCE M. GALLIHER, OF LEXINGTON, MISSISSIPPI, ASSIGNOR OF
ONE-HALF TO J. S. CARROLL, OF HAYS COUNTY, TEXAS.

SELF-LOCKING NUT.

No. 814,199.

Specification of Letters Patent.

Patented March 6, 1906.

Application filed April 7, 1905. Serial No. 254,293.

To all whom it may concern:

Be it known that I, LAWRENCE M. GALLIHER, a citizen of the United States, residing at Lexington, in the county of Holmes and State of Mississippi, have invented certain new and useful Improvements in Self-Locking Nuts; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in nut-locks; and the object of the invention is to produce a simple and efficient device of this nature in which the nut has a chambered portion for the reception of a tapering flexible key adapted to sit against the inclined wall of the chambered portion, a portion of the key being adapted to be held in a groove of the face of the nut.

The invention consists, further, in various details of construction and in combinations and arrangements of parts, which will be hereinafter fully described and then specifically defined in the appended claim.

My invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of my nut-lock as applied to a bolt. Fig. 2 is a sectional view longitudinally through the nut. Fig. 3 is a face view showing the device of the locking-key seated in the chambered portion of the nut. Fig. 4 is a detail perspective of the locking device, and Fig. 5 is a detail view of the nut.

Reference now being had to the details of the drawings by letter, A designates a nut having a centrally-threaded aperture therein, one face of said nut being chambered out, as at C, the inner end of the wall of the chambered portion being beveled, as shown at D, and E designates a groove formed in one face of the nut, preferably at the corner thereof, and at the lower marginal edge of said groove terminating at the upper end of the beveled part of said chambered portion.

F designates a locking-key made of resili-

ent material, is partially coiled, and has a beveled circumference K. One end of said key is outwardly bent and adapted to be seated in said slot or groove of the nut, and the inner face of said key has serrations N, which are designed to bite into the threads of the nut, as the latter is secured upon the threaded end of the bolt, thereby causing the nut to be securely held from rotation. The serration nearest the end of a key projects slightly beyond the other serrations for the purpose of securely gripping the threads of the bolt. In applying the key it is first seated in the grooved nut and the nut turned by means of a wrench, and as the inner edge of the key is forced against the fish-plate or other object through which the bolt passes the diameter of the key will be contracted, causing the inner edge of the key to securely bind and engage the bolt. If preferred, the teeth upon the key may be dispensed with and a single pointed portion Q at the end of the key left for the purpose of engaging the bolt.

From the foregoing it will be observed that a simple and efficient device is provided for securely holding a nut upon a bolt which may be readily applied to or removed therefrom.

While I have shown a particular form of construction of nut-lock embodying the features of my invention, it will be understood that I may vary the detailed construction of the same, if desired, without in any way departing from the spirit of the invention.

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

A nut-lock comprising a nut with a central threaded bore extending substantially half the thickness of the nut, the threads of said bore terminating in a chambered or recessed portion with inclined walls, with a channel leading through one corner of the nut from said recessed portion, a resilient key which is circular outlined and provided with an inclined outer circumference conforming to the inclined wall of the chambered portion of the nut, one end of said key being bent at right angles and designed to engage the channel

formed in the nut, the inner circumference of
said key provided with serrations, the end
serration of the series extending slightly in
advance of the others and adapted to bite
5 into the threads of a bolt as the key is con-
tracted by the inclined walls of said recessed
portion of the nut, as set forth.

In testimony whereof I hereunto affix my
signature in presence of two witnesses.

LAWRENCE M. GALLIHER.

Witnesses:

E. N. ASHLEY,

W. A. HARTCOCK.