

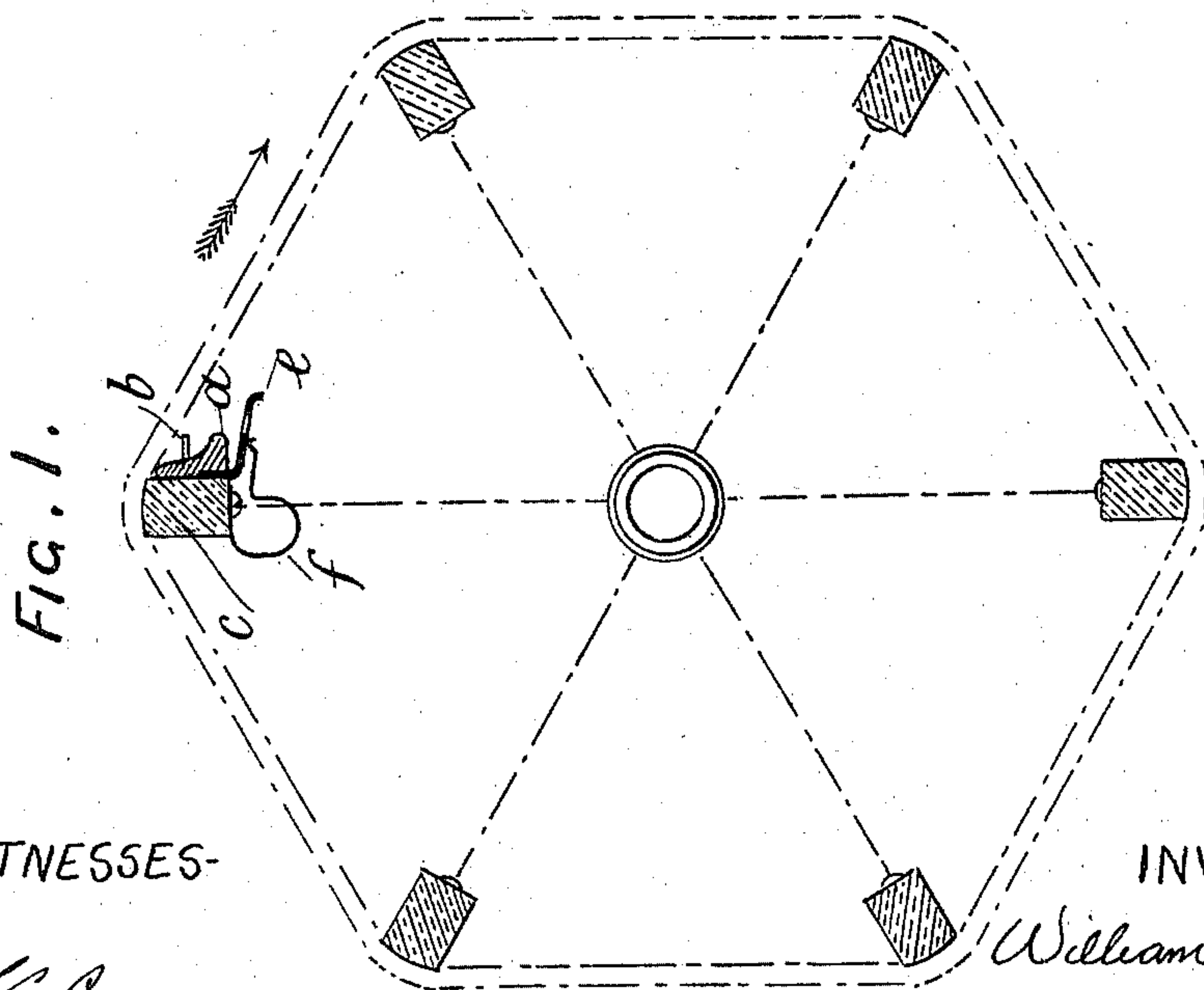
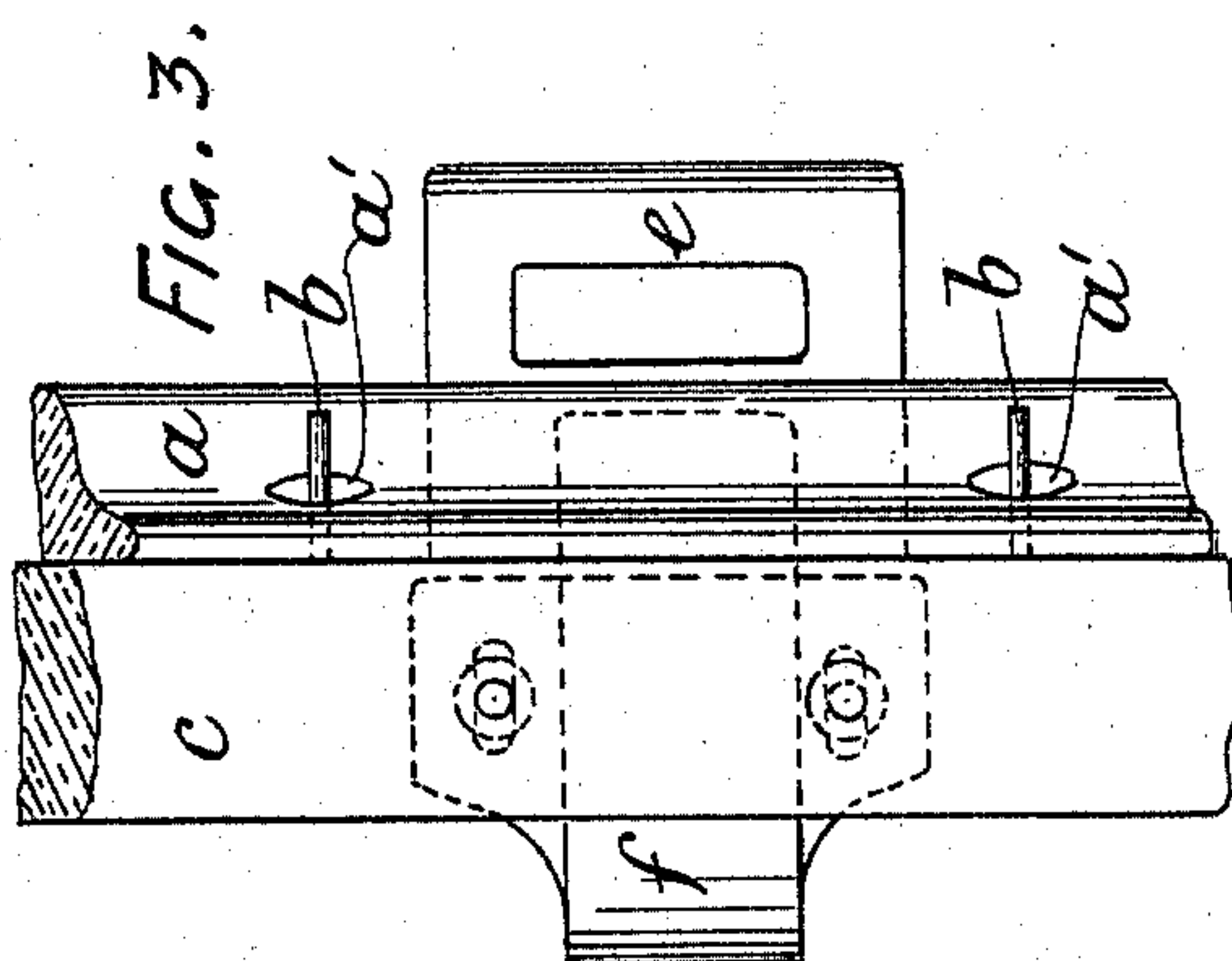
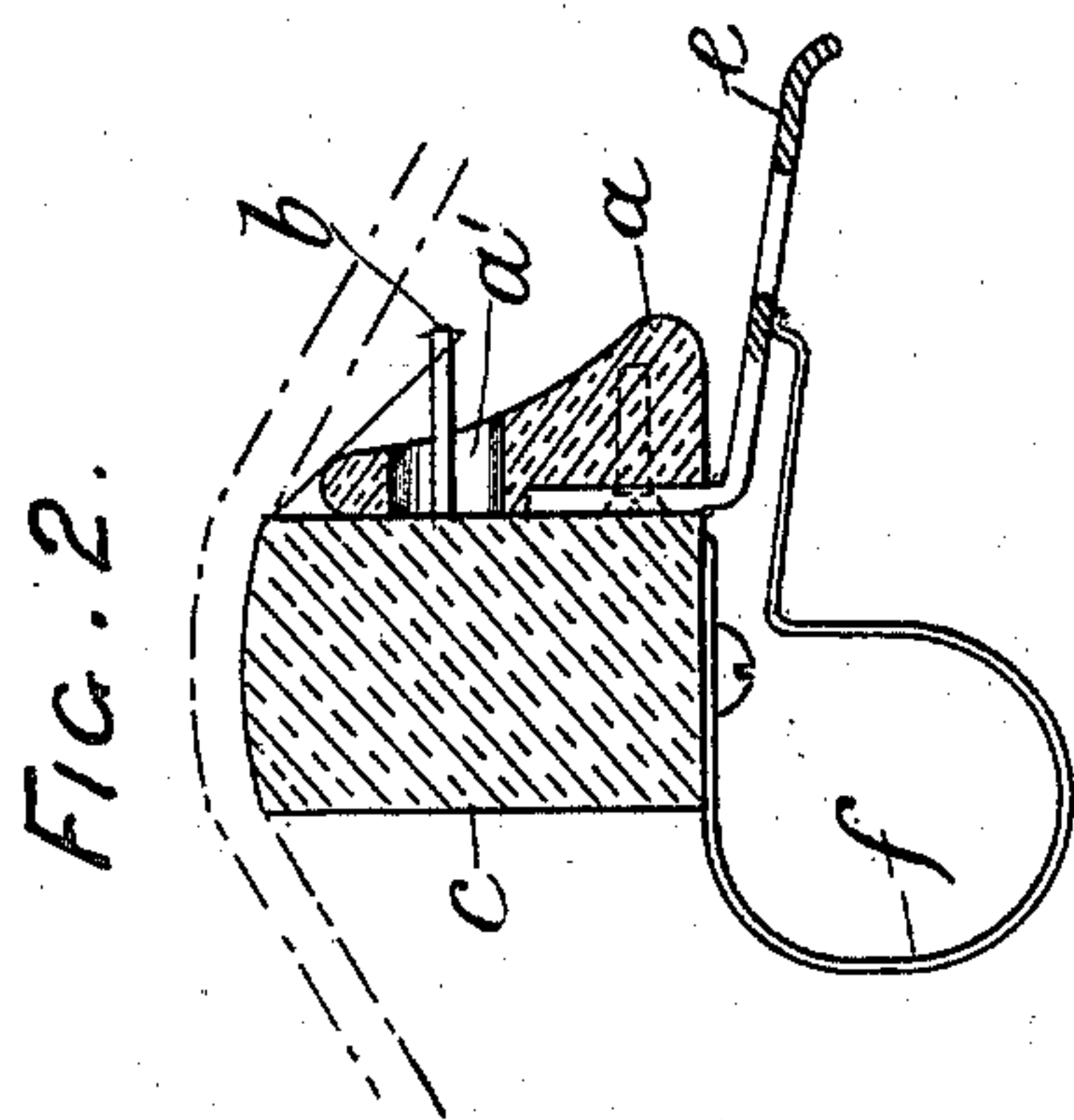
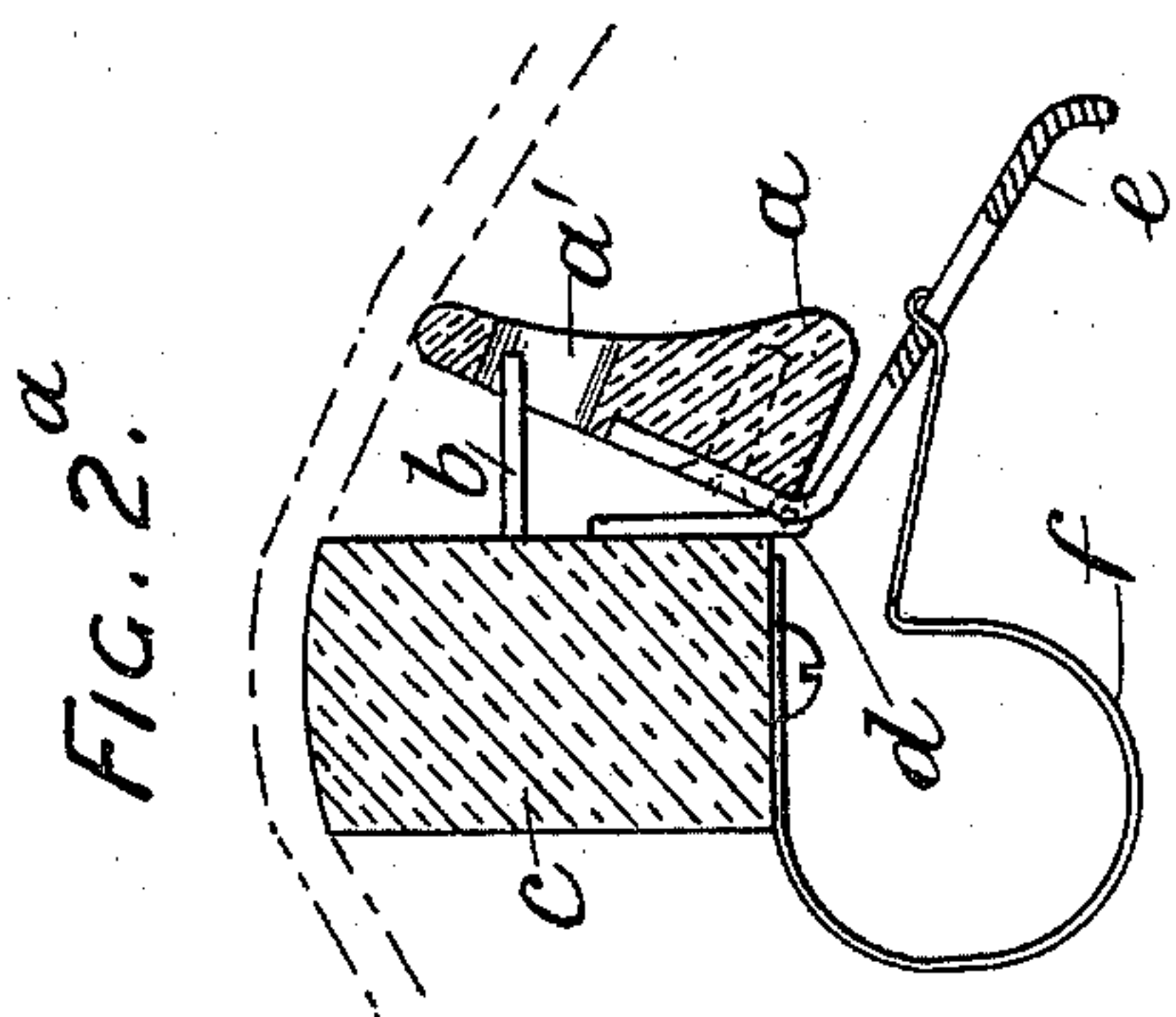
(No Model.)

2 Sheets—Sheet 1.

W. H. HASLAM.
REELING MACHINE.

No. 582,059.

Patented May 4, 1897.



-WITNESSES-

N. Connor
M. H. Miles

INVENTOR

William Henry Haslam
BY *Howson & Howson*
HIS ATTORNEYS

(No Model.)

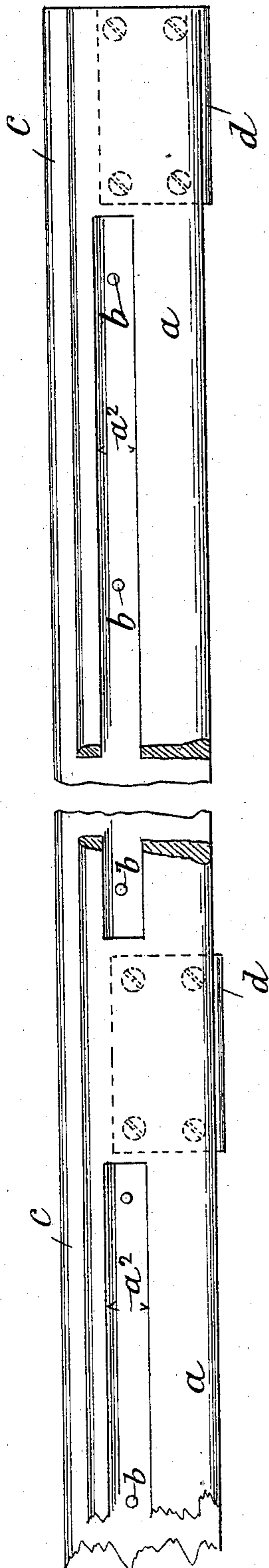
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FIG. 4.



-WITNESSES-

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UNITED STATES PATENT OFFICE.

WILLIAM HENRY HASLAM, OF BOLTON, ENGLAND.

REELING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 582,059, dated May 4, 1897.

Application filed March 23, 1897. Serial No. 628,883. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM HENRY HASLAM, a subject of the Queen of Great Britain, residing at Bolton, in the county of Lancaster, England, have invented Improvements in or Applicable to Reeling-Machines, of which the following is a specification.

This invention relates to the machines employed for reeling yarn or thread either from the cop-spool or bobbin, and is designed to enable the attendant to detach all the ends of the yarn on such machines at one movement instead of many, and thus to economize time and labor and to improve the quality of the work.

It is now the custom on the ordinary reeling-frames, at the commencement of the reeling of each set of hanks, (generally forty or fifty hanks to the set,) for the attendant to fasten the end of each thread to pins fixed and projecting on the side face of one of the "staves" by looping each end around its respective pin, and then when a certain number of revolutions of the swift has been given the machine is stopped and the attendant detaches each end separately from its pin, so that when fully reeled the hanks will then be ready for immediate doffing. This means is slow and defective, as it is found that the attendant often soils and twists the threads together and occasionally misses detaching the ends from some of the pins, and thus causes the hanks to become entangled, involving loss of material and extra labor in the subsequent operation of winding. My invention is intended to remedy this defect and to accelerate the speed of the operation by causing all the ends of the hanks to be detached at one movement by positive mechanical means, which may be effected in the following manner.

The invention will be readily understood on reference to the accompanying drawings.

Figure 1 is a section through the staves of a reel with my improvement applied to one of them. Fig. 2 is an enlarged section through this stave. Fig. 2^a is a similar view showing a different position of my attachment. Fig. 3 is a plan thereof. Fig. 4 is a face view showing a modification hereinafter referred to.

I propose to accomplish the required result in the first place by means of a long narrow

strip or lath of wood, metal, or other suitable substance *a*, provided with suitable perforations *a'*, corresponding with the projecting pins *b* on the stave *c*. This strip or lath *a* is about the same width or rather narrower than and about the same length as the stave *c* and is placed on the side face thereof, (the face in the direction of which the swift revolves, as seen by the arrow on Fig. 1,) and it is connected thereto by suitable hinges *d*, so that the pins *b* project through the perforations *a'*. A handle *e* is provided which bears the pressure of a spring *f*, which keeps the lath pressed against the stave until it is required to be lifted. It is desirable that the pins should be smooth and without heads.

It is not essential that the perforations *a'* be made circular in all cases. A modification in shape and size may be made, taking care that they are sufficiently large to allow the lath *a* to turn freely on its hinges without the edge of the perforation coming in contact with the pins. If desirable, each perforation may be enlarged laterally, so as to embrace two or more pins *b*, as seen at *a'*², Fig. 4.

The pins *b* project sufficiently through the perforations *a'* in the lath *a* to enable the attendant to fasten the ends of yarn thereto, as usual, so that when the hanks are reeled and ready for doffing the strip or lath *a* is turned on its hinges *d*, as seen at Fig. 2^a, thereby detaching all the ends at one operation instead of many, each detached end being smoothed in and under its own hank by the motion of the lath *a*, which, being held in this position by the spring *f*, covers or acts as a shield over the ends of the pins *b* and prevents the hanks from catching on them when doffing. After doffing, the lath *a* is turned back to its original position.

I claim as my invention—

1. In apparatus for reeling yarn the combination with a stave, of pins or pegs to which the ends of yarn can be fastened and a hinged lath for detaching all the ends simultaneously when the hanks have been wound on the reel, substantially as hereinbefore set forth.

2. In apparatus for reeling yarn the combination with a stave, of pins or pegs to which the ends of yarn can be fastened and a hinged lath for detaching all the ends simultaneously

when the hanks have been wound on the reel
the said lath being provided with a spring
which holds the same in such position as to
cover the ends of the pins or pegs, substan-
5 tially as and for the purpose hereinbefore set
forth.

In testimony whereof I have signed my

name to this specification in the presence of
two subscribing witnesses.

WILLIAM HENRY HASLAM.

Witnesses:

CHARLES S. DAVIES,
JNO. HUGHES.