

No. 615,998.

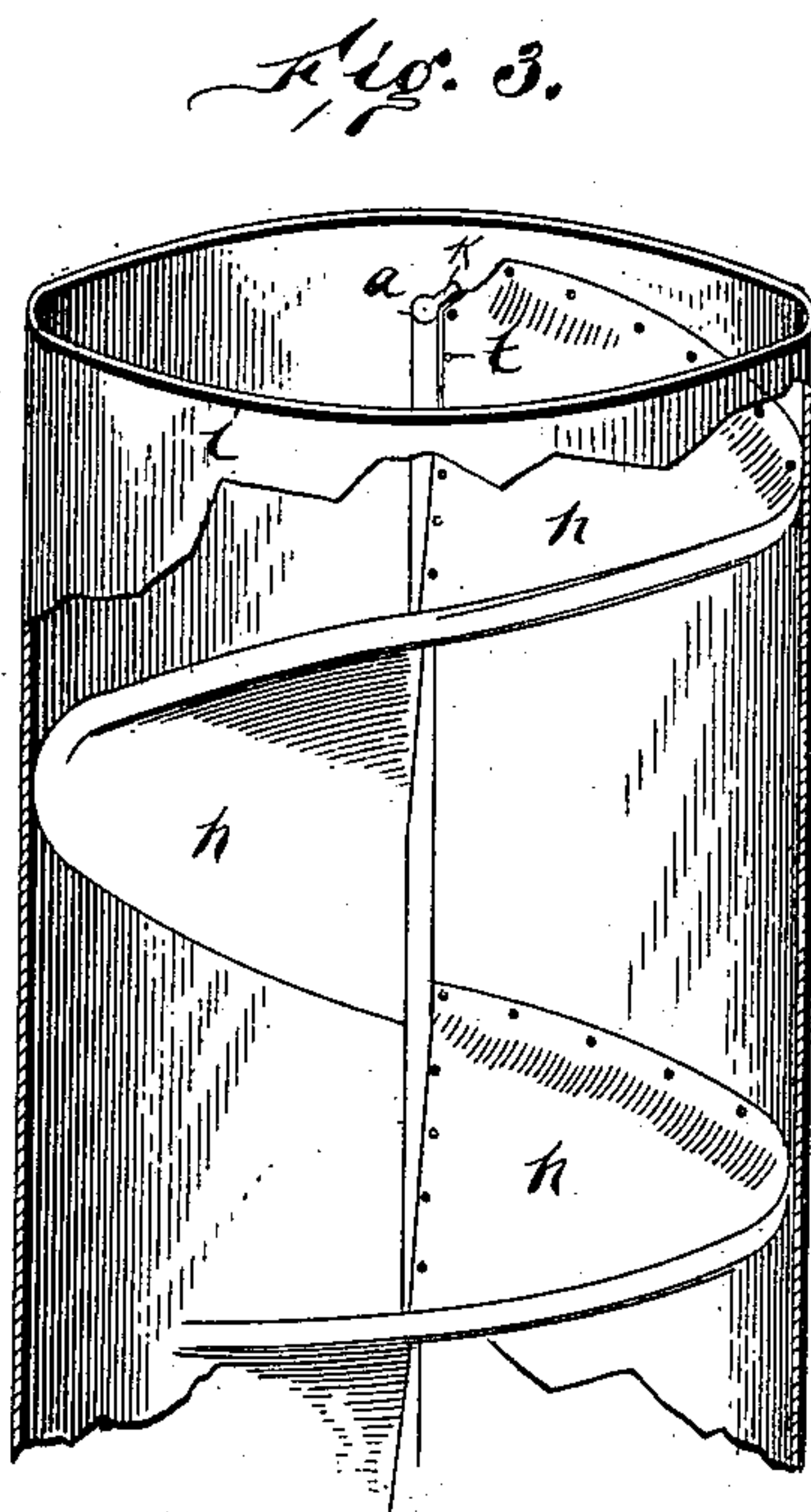
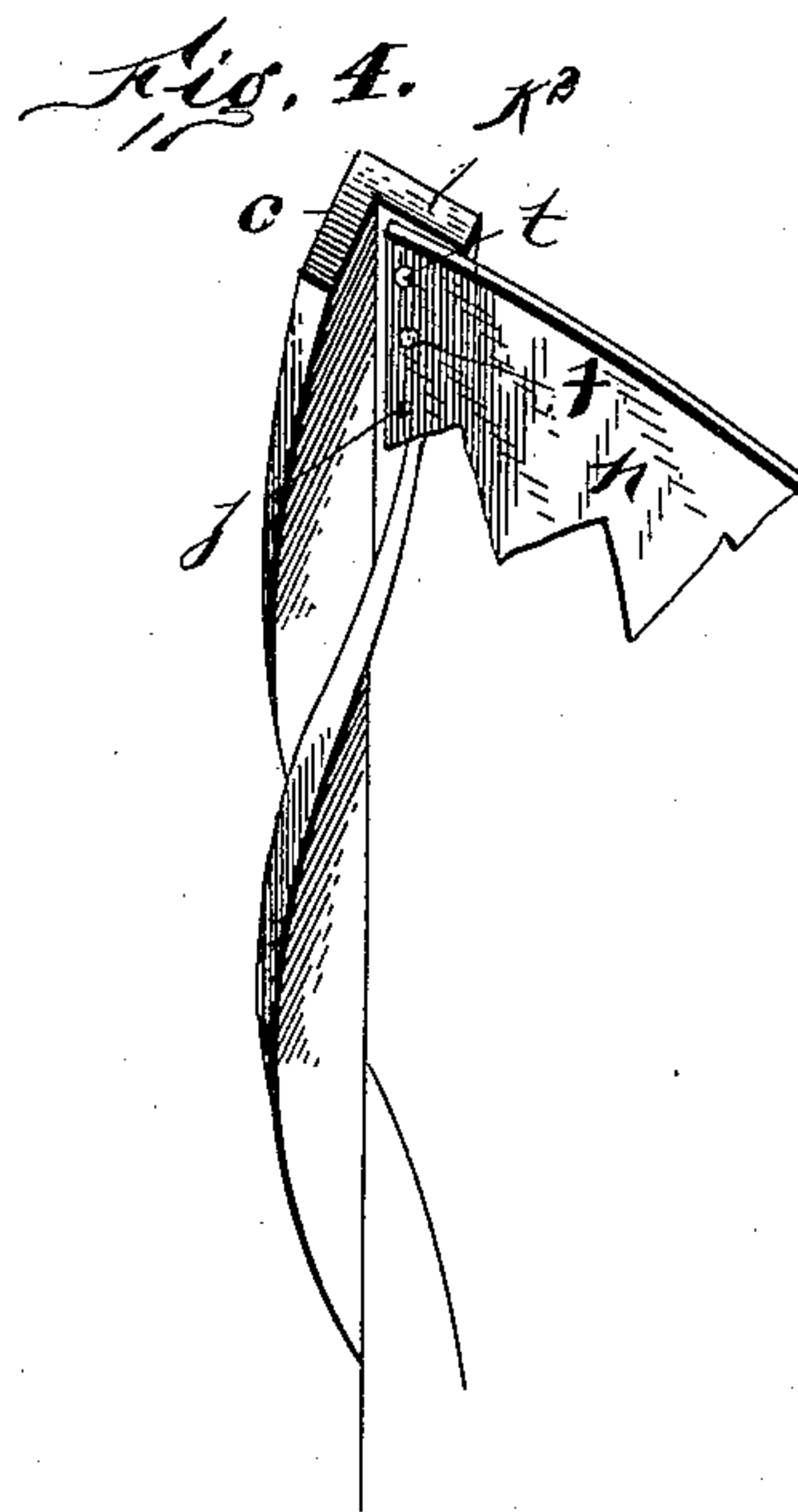
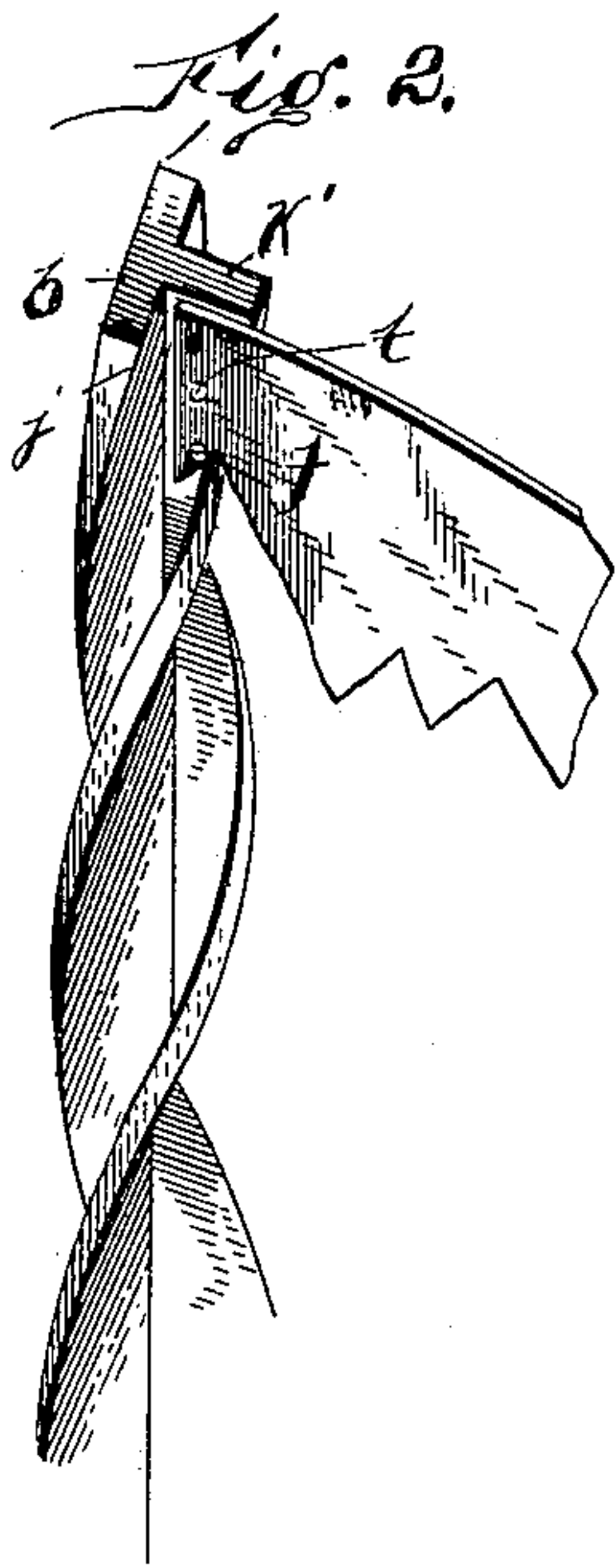
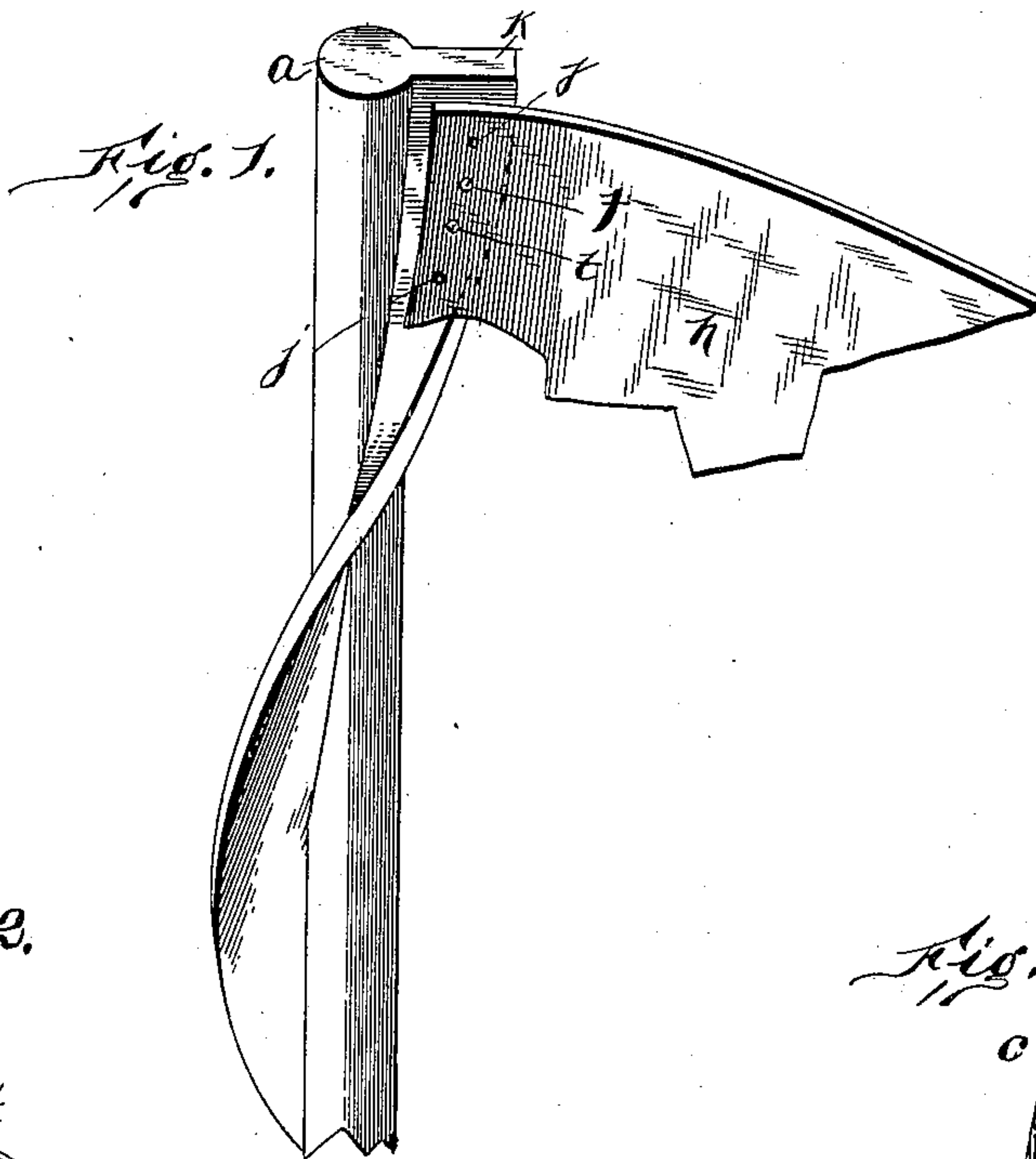
Patented Dec. 13, 1898.

W. H. LOGAN.
FIRE ESCAPE.

(Application filed Jan. 25, 1898.)

(No Model.)

2 Sheets—Sheet I.



WITNESSES:

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M. W. Haskell.

INVENTOR
W. H. LOGAN

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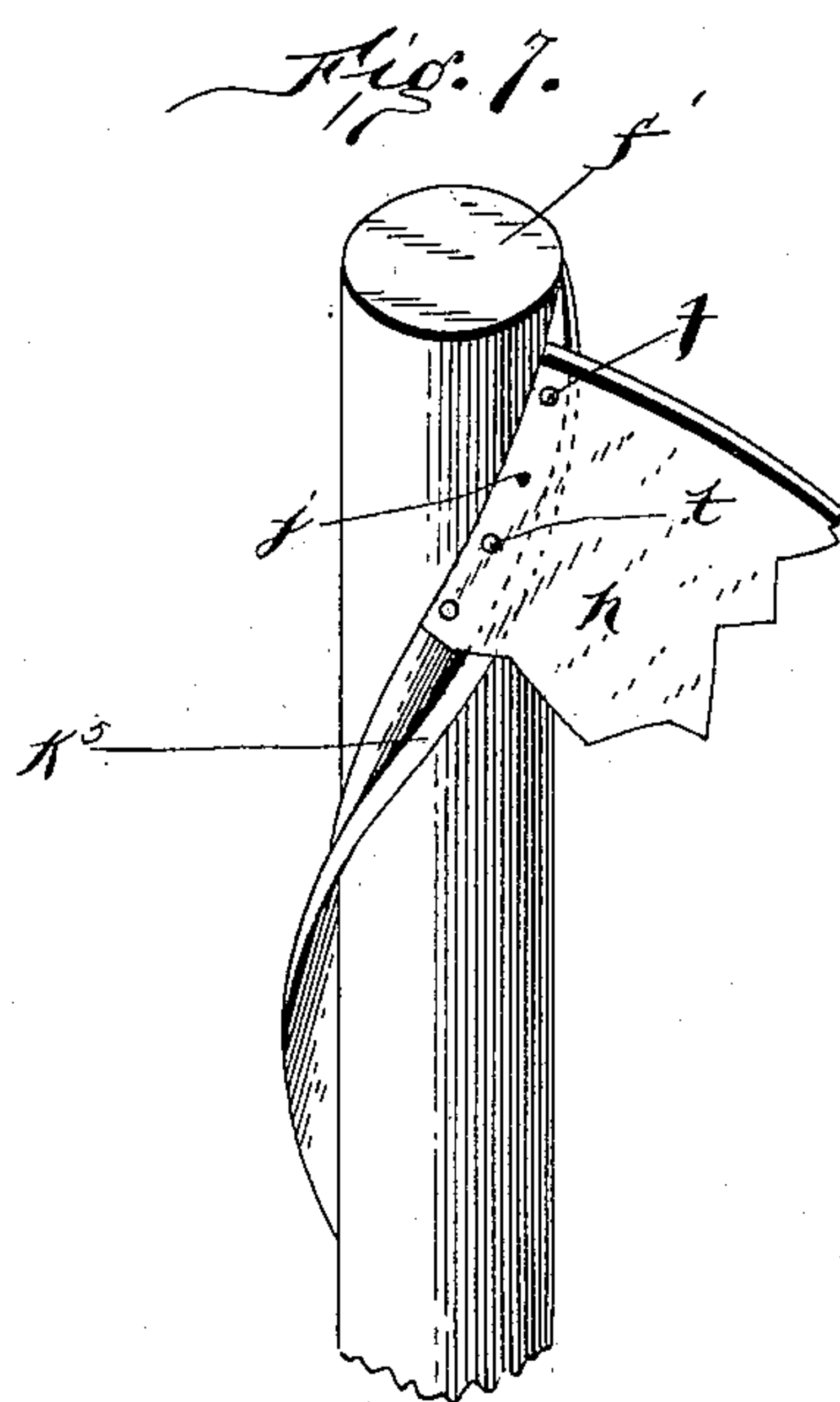
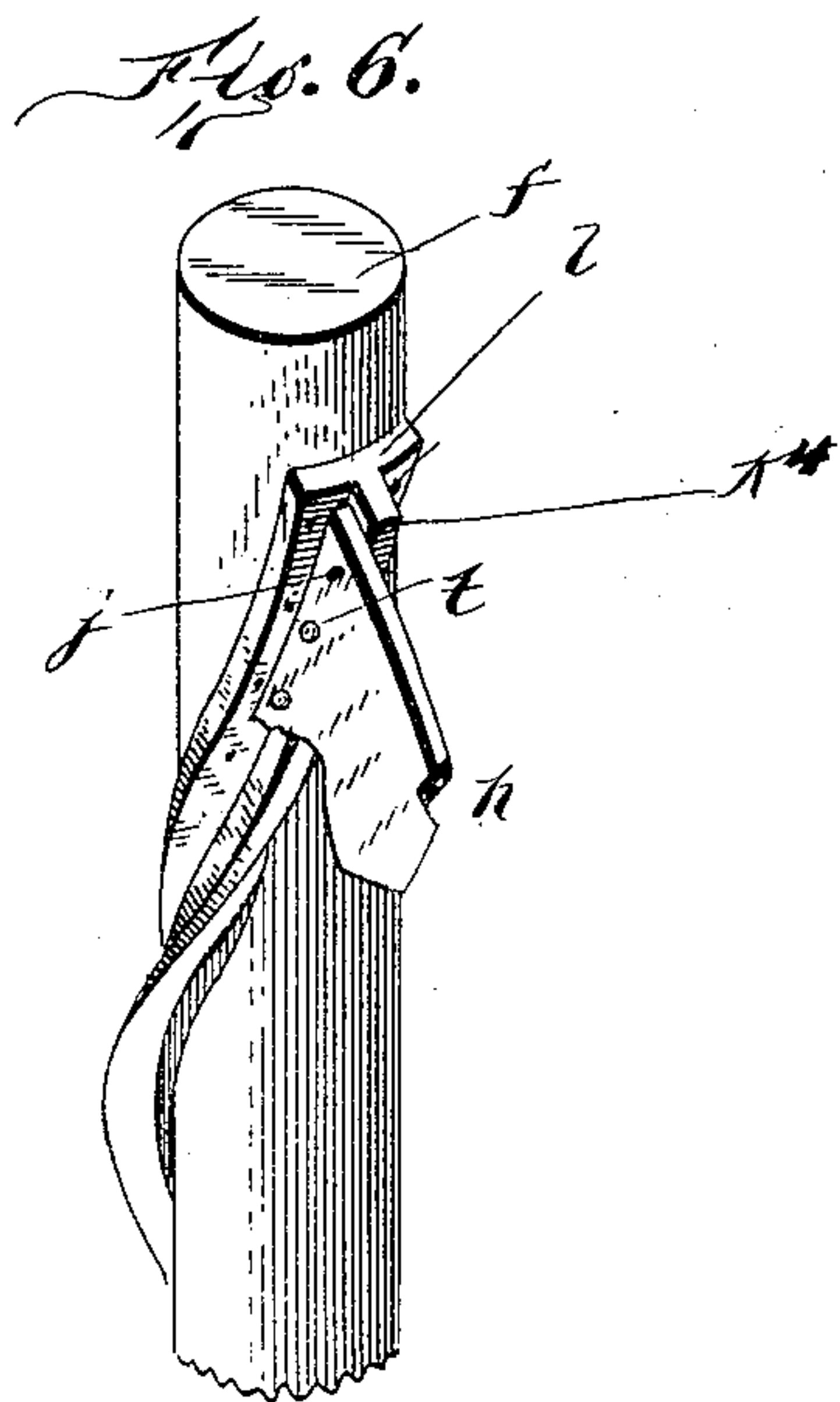
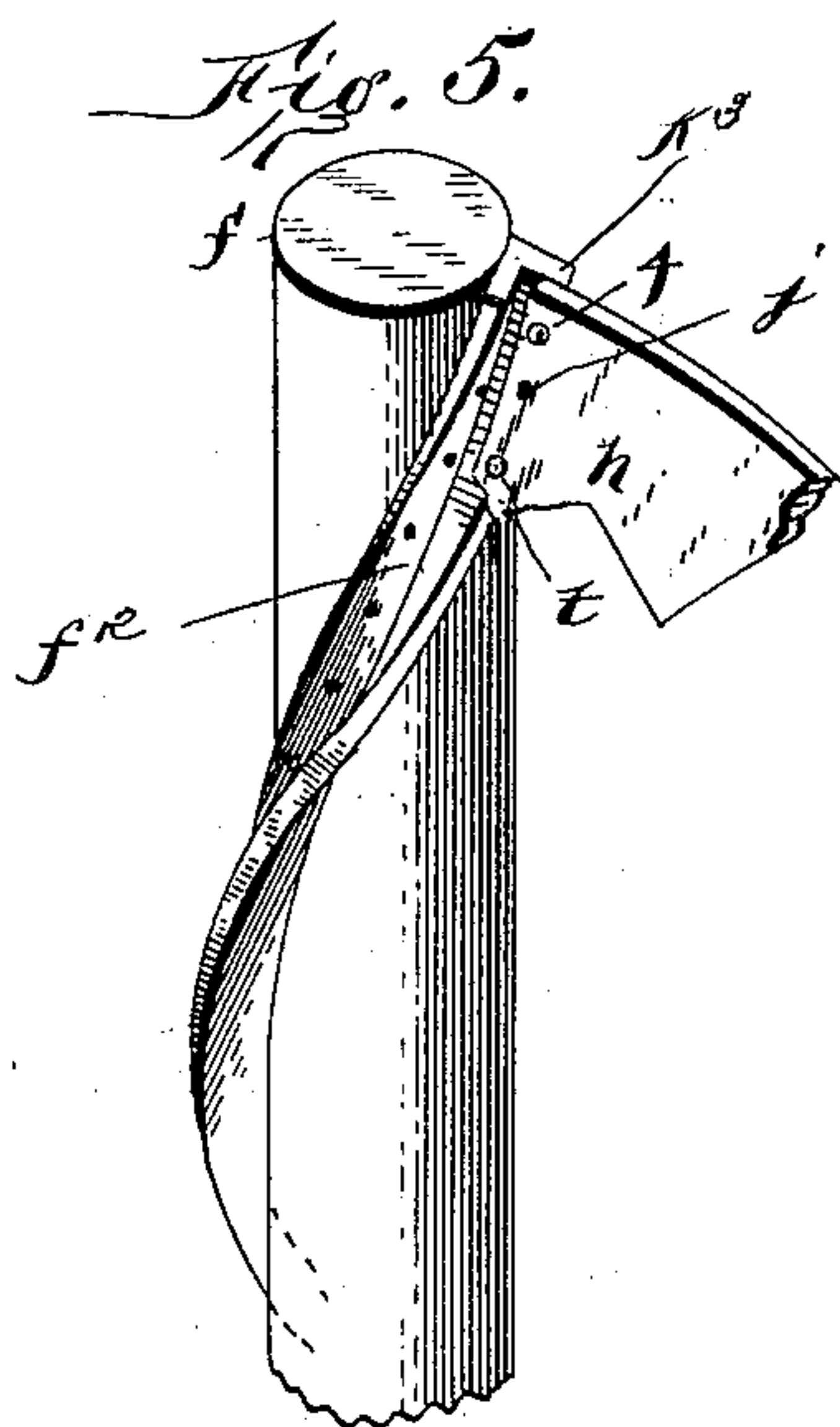
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UNITED STATES PATENT OFFICE.

WILLIAM HUME LOGAN, OF LOUISVILLE, KENTUCKY, ASSIGNOR TO THE
KIRKER-BENDER FIRE ESCAPE COMPANY, OF SAME PLACE.

FIRE-ESCAPE.

SPECIFICATION forming part of Letters Patent No. 615,998, dated December 13, 1898.

Application filed January 25, 1898. Serial No. 667,917. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM HUME LOGAN, of Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Fire-Escapes; and I do hereby declare that the following is a full, clear, and exact description of the invention, which 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 part of this specification.

This invention relates to fire-escapes, its object being to provide a durable fire-escape which shall be simple and efficient, may be produced at comparatively small cost, and be easily repaired when necessary.

Heretofore fire-escapes have generally been expensive and complex in their construction and not always simple and efficient in their mode of operation, and have therefore been objectionable to many persons in places where the law is compulsory as to the erection of fire-escapes. To avoid these objections and to provide an escape that will meet the requirements of the general public and enable persons of ordinary means to supply their houses with safety appliances are objects of my invention.

The invention consists, broadly, of a central post or pillar, a spirally-twisted bar secured to the post, and a spirally-bent way secured to the bar. An inclosing casing will also preferably be employed.

In the accompanying drawings, Figure 1 shows a central post with a projecting bar extending spirally around it, to which the spiral way is secured, the bar being integral with the post. Fig. 2 shows a cross-sectionally T-shaped post twisted spirally, the stem of the T forming the bar to which the way is secured. Fig. 3 is a view, partly broken away and partly in section, showing the escape and inclosing casing. Fig. 4 shows an angle-iron spirally twisted to form the post and bar to which the way is secured. Fig. 5 shows a cylindrical post and a spirally-twisted angle-iron secured thereto and to which the way is secured. Fig. 6 shows a cylindrical post and a spirally-twisted T-shaped bar secured there-

to, the way being secured to the stem of the T and the head of the T being curved to fit the post. Fig. 7 represents a wooden post having a wooden strip arranged spirally thereon and secured thereto and to which the way is secured.

All the figures are partly broken away, and in all of them the inclined spiral way is indicated by *h*. The way is provided with a series of perforations *j* near its inner edge for the passage of securing bolts or rivets *t*, by means of which it is secured to the spirally-twisted bar on the supporting-post, to be hereinafter described.

Referring to Fig. 1, *a* indicates the central post, which is provided with an integral spirally-twisted bar *k*, to which the way is secured, as before described.

In Fig. 2 is shown a cross-sectionally T-shaped bar *b*, spirally twisted, the stem *k'* of the T forming the bar to which the way is secured, as before described.

In Fig. 4 is shown an angle-iron *c*, spirally twisted, the member *k²* of said iron forming the bar to which the way is secured.

In Fig. 5 is shown a cylindrical post *f*, to which is secured a spirally-twisted angle-iron *f²*, the member *k³* of said iron forming the bar to which the way is secured.

In Fig. 6 is also shown a cylindrical post *f*, to which is secured a spirally-twisted T-iron, the head *l* of the T being curved to fit against the post and secured thereto by screws or similar fastening devices. The stem *k⁴* of the T serves as the bar to which the way is secured.

In Fig. 7 is shown a cylindrical wooden post *f'*, to which is secured in any suitable manner a spirally-arranged wooden strip *k⁵*, which serves as the bar to which the way is secured.

In Fig. 3 I have shown the cylindrical casing *i*, which incloses the escape and preferably is in contact with the outer edge of the way and secured thereto by rivets or similar fastening devices.

It is not necessary to the purpose of this specification to describe the various places, location, and uses where this invention may be applied, as these are obvious to the user, the device being adapted for location inside or outside the building, and it is obvious may

be erected at comparatively small cost. Easy curves may be employed in the spiral way to prevent the too-rapid descent of the person or article descending, as circumstances may suggest.

It is obvious that changes in the form, proportions, and other minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of my invention.

Having described the invention, I claim—

1. The combination in a fire-escape of the central post, a spirally-twisted bar secured to the said post, and a spirally-bent way secured

to the said bar, substantially in the manner and for the purpose specified.

2. A fire-escape comprising a central post, a spirally-twisted bar secured to the post, an inclined spirally-bent way united to said bar and an inclosing casing, substantially as described.

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

WILLIAM HUME LOGAN. [L. S.]

Witnesses:

E. B. KERR,
E. L. BOWIE.