

No. 717,288.

Patented Dec. 30, 1902.

J. SCHNEIDER.
LEATHER STRETCHING DEVICE.

(Application filed Oct. 1, 1902.)

(No Model.)

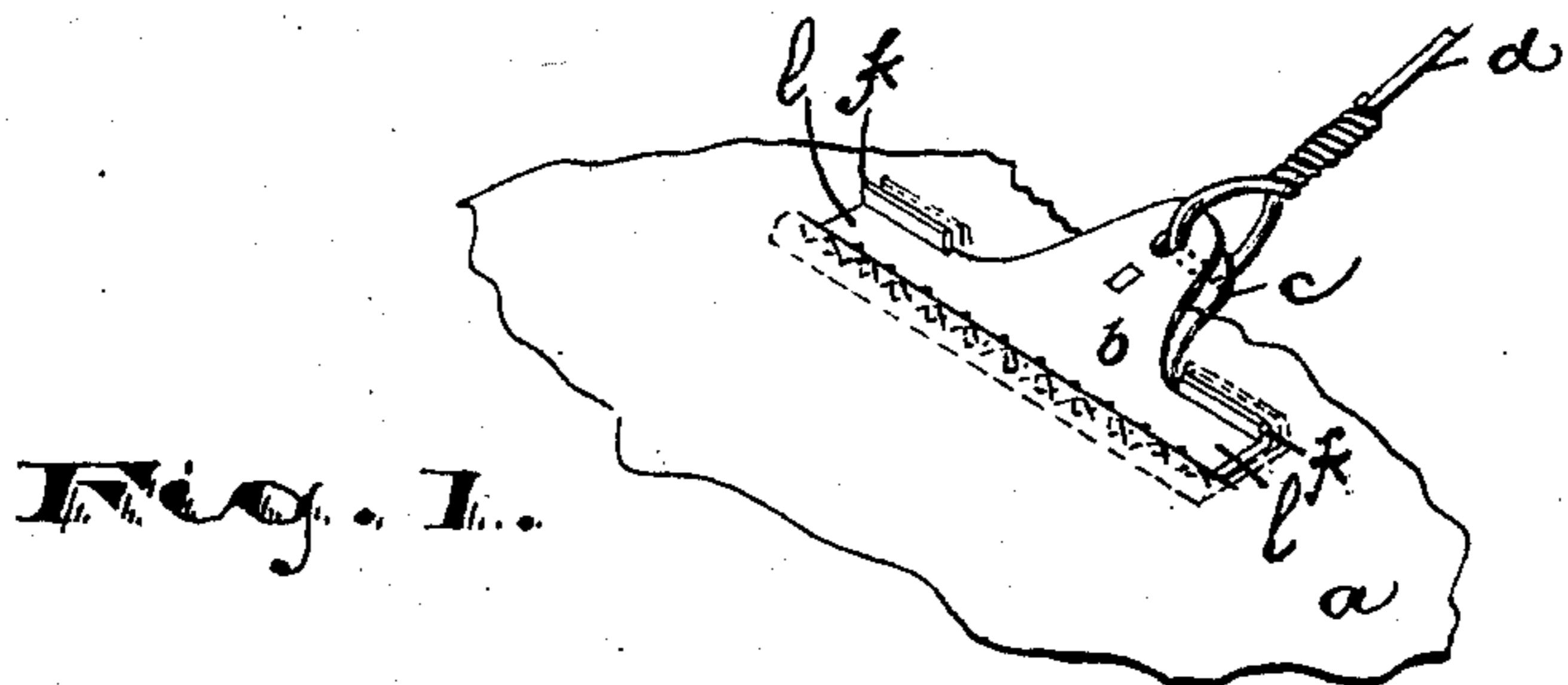


Fig. 1.

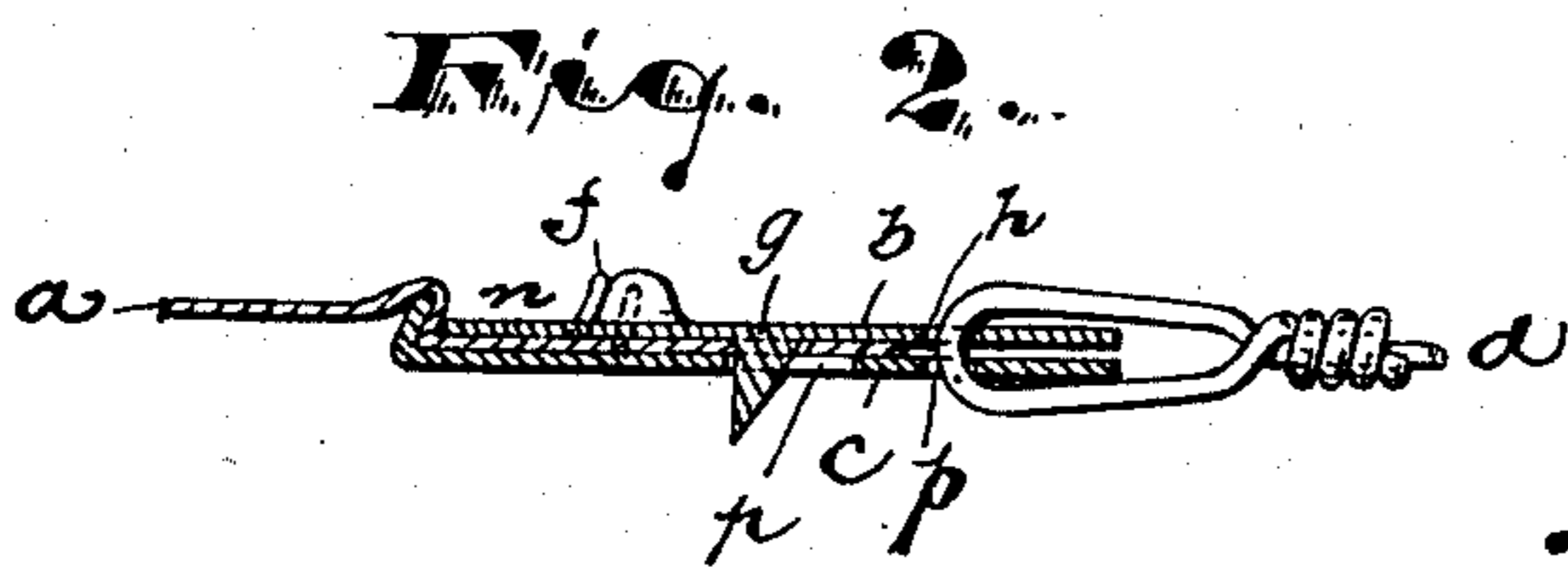


Fig. 2.

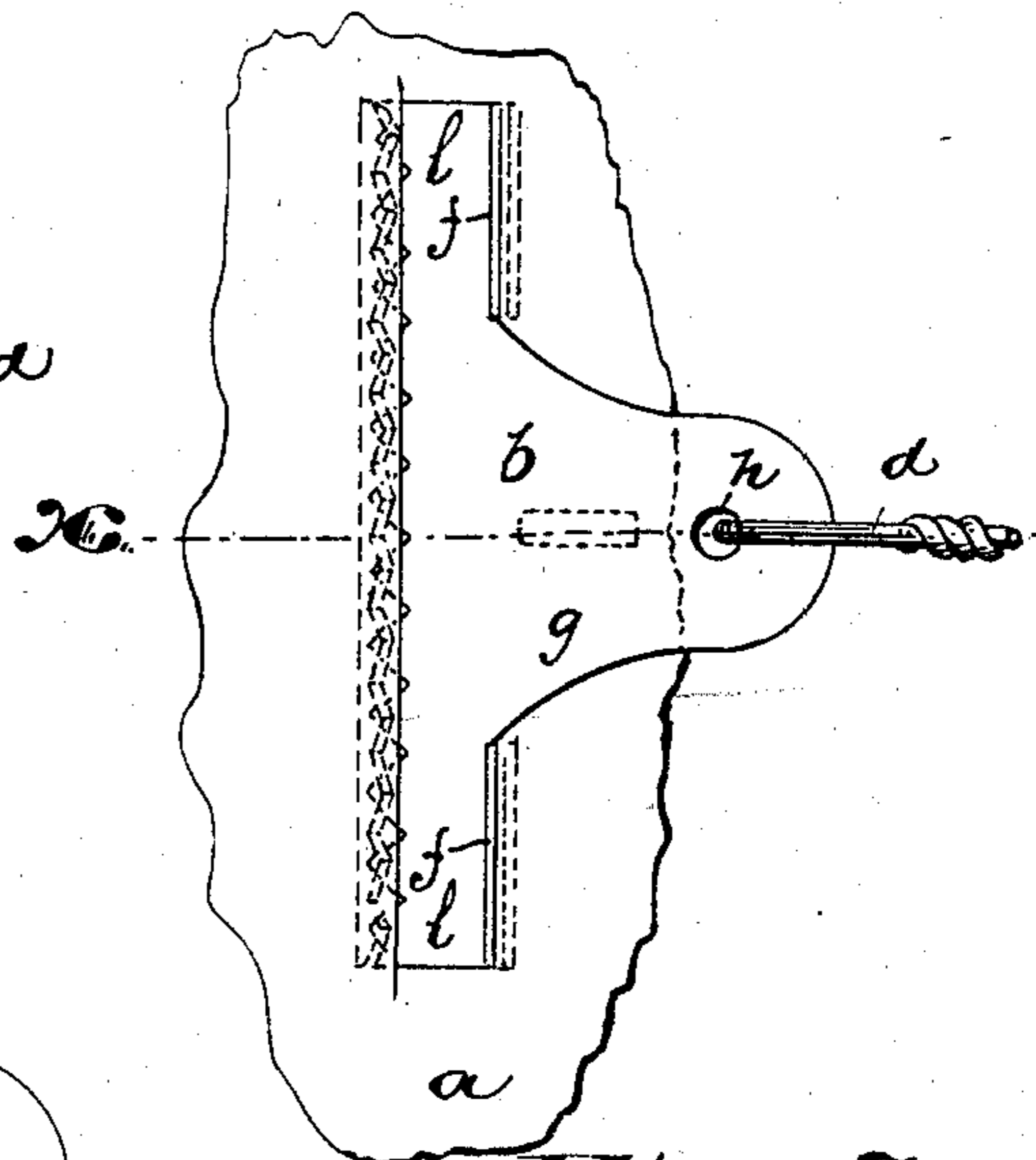


Fig. 3.

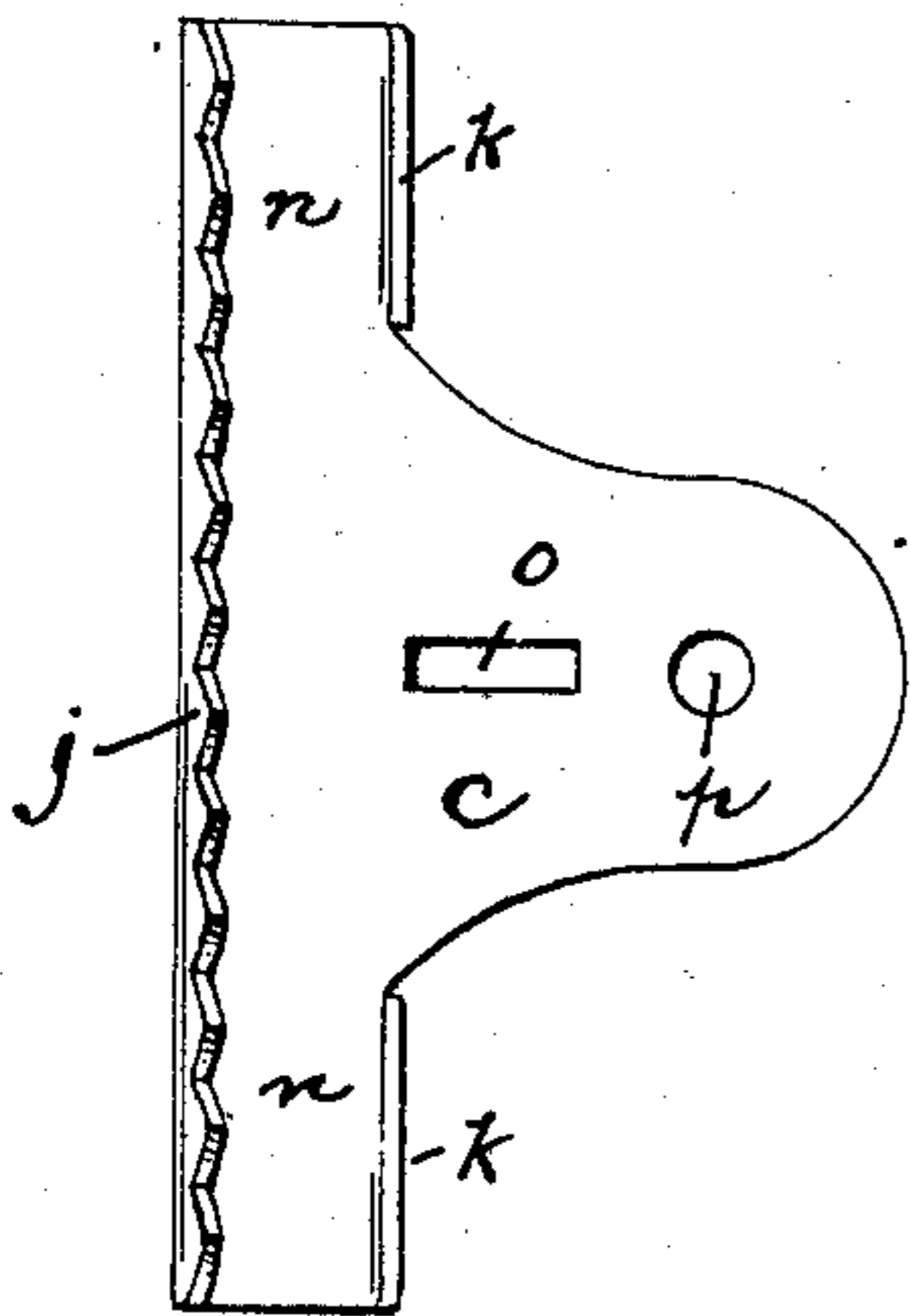


Fig. 4.

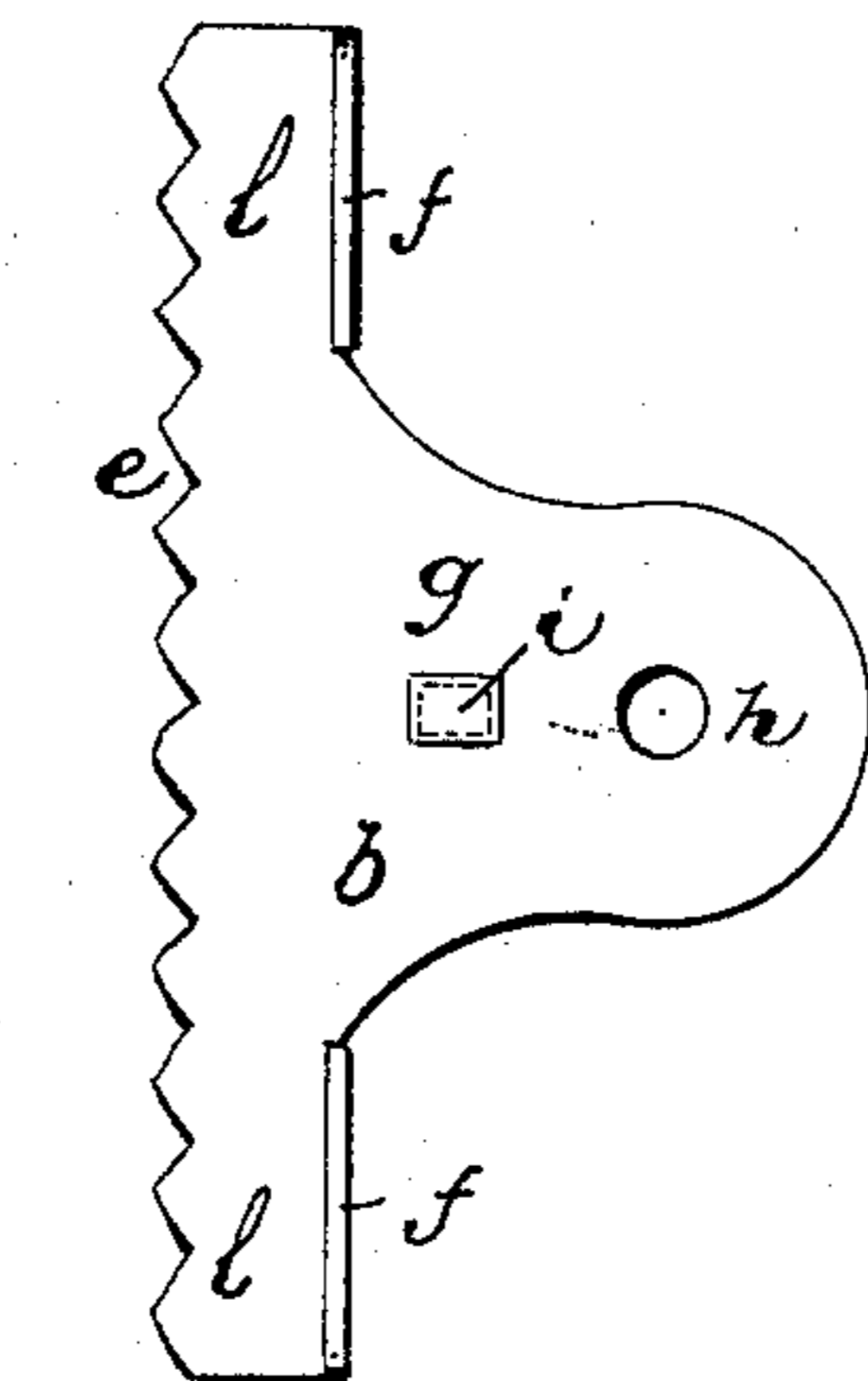


Fig. 5.

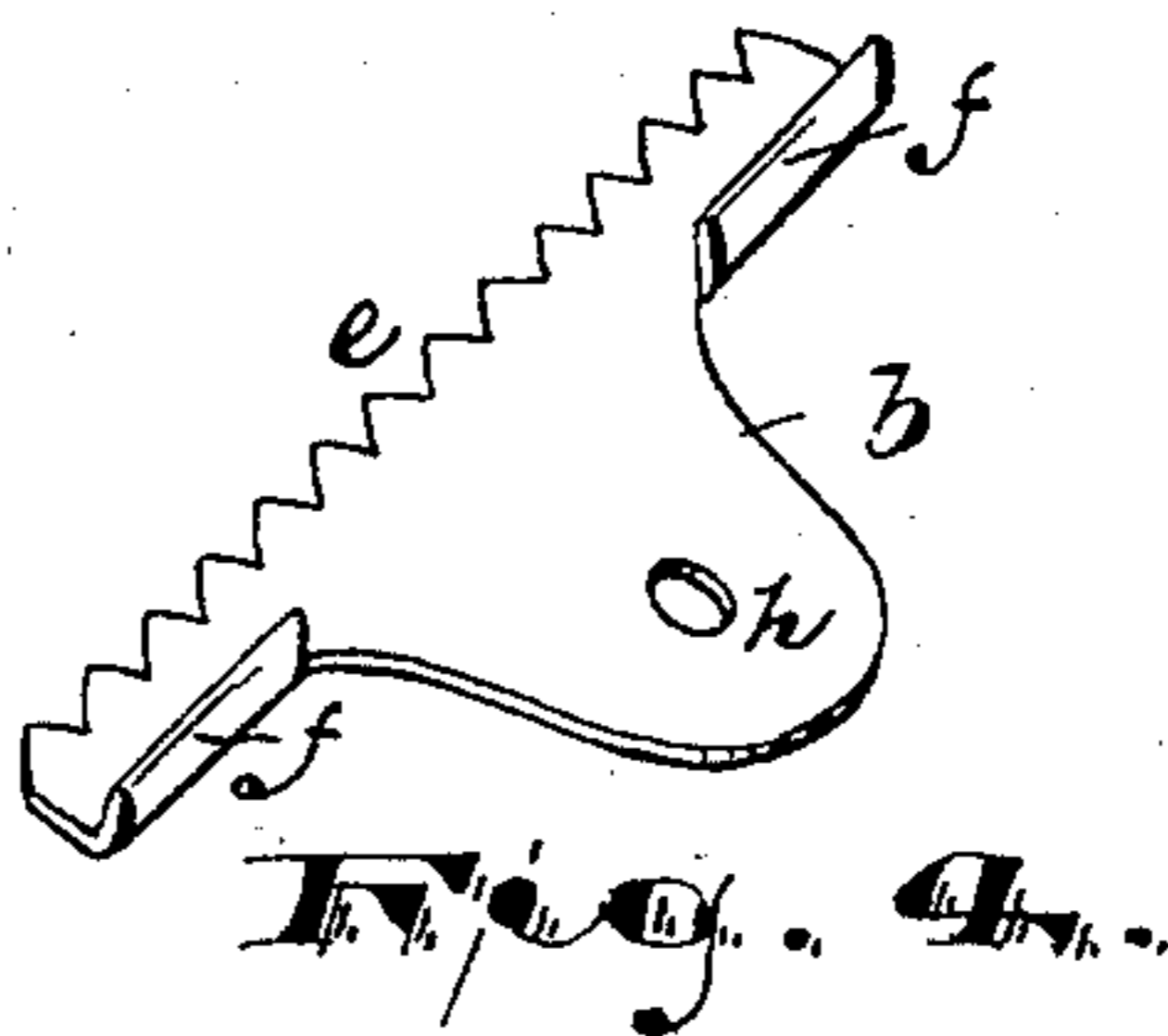


Fig. 6.

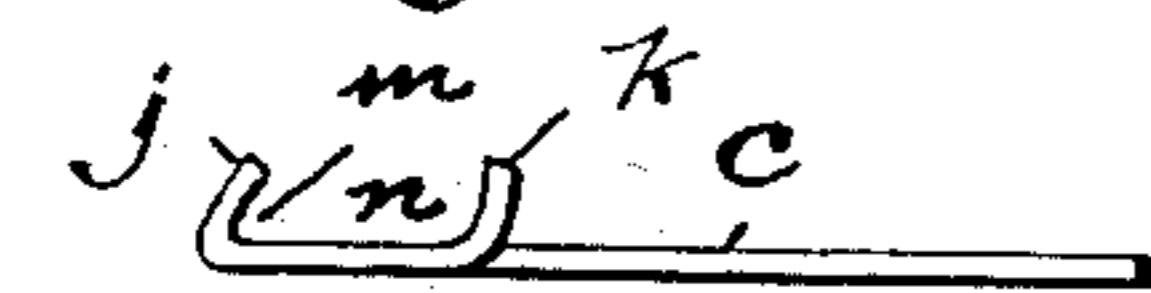


Fig. 7.



Fig. 8.

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LEATHER-STRETCHING DEVICE.

SPECIFICATION forming part of Letters Patent No. 717,288, dated December 30, 1902.

Application filed October 1, 1902. Serial No. 125,474. (No model.)

To all whom it may concern:

Be it known that I, JOHN SCHNEIDER, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented and produced a new and original Improvement in Leather-Stretching Devices; and I do hereby 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 letters of reference marked thereon, which form a part of this specification.

The objects of this invention are to facilitate the work of stretching leather, particularly in the operation of manufacturing patent-leather, to enable the leather to be stretched without tearing to the extent heretofore common, to avoid perforating the leather in front of the clutching-teeth or at a point nearer the center of the leather than where caught by the jaws, and to secure other advantages and results, some of which may be hereinafter referred to in connection with the description of the working parts.

The invention consists in the improved leather-stretching device and in the arrangements and combinations of parts of the same, all substantially as will be hereinafter set forth and finally embraced in the clauses of the claim.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts in each of the several figures, Figure 1 is a perspective view showing my new stretching device in connection with the leather. Fig. 2 is a section on line *x* of Fig. 3. Fig. 3 is a plan of the parts shown in Fig. 1. Fig. 4 is a perspective view of one of the clutching-jaws. Figs. 5 and 6 are respectively a plan and side elevation of the other cooperating jaw, and Figs. 7 and 8 are respectively a plan and side elevation of the first-mentioned jaw shown in Fig. 4.

In said drawings, *a* indicates the leather, which may be fastened to the opposites of an ordinary stretching-frame (not shown) by means of the improved clutching-jaws *b c* and cords or connections *d*.

The feature of novelty of this invention inheres in the peculiar construction of the

clutching-jaws *b c* and their mode of grasping the leather, which jaws I will now proceed to describe.

The jaw *b* comprises a flat plate having a straight serrated edge and back of said edge and parallel therewith upturned edges *f f*, from the line of which the body of said plate at the center extends rearward and forms a seat *g* for a piercing pin or tooth *i* and an eye *h* to receive the cord or connection *d*.

The jaw *c* is similar in general shape in plan to the jaw *b* and has a straight clutching edge *j* having teeth, the serrated edge being turned upward and rearward, as shown in Fig. 6, to permit the serrated edge *e* to enter the recess *m* beneath, as hereinafter more particularly described. Back from the up and backwardly turned edge *j* and parallel therewith are upturned edges *k k*, separate from one another, but in line one with the other, spaces *n* being formed between the serrated upturned edge *j* and the edges *k*, into which the opposite ends *l* of the flat jaw *b* may lie loosely, except when the leather is in clutched relation to the jaws. Between the separated bearings or upturned parts *k k* the plate or jaw *c* is slotted or perforated at *o* to receive the pin or tooth *i* and perforated at *p* to receive the cord or connection *d*.

In operating the invention or employing it in effective service the leather *a* near its edge is laid over the jaw or plate *c* and the plate *b* at its serrated edge *e* is pressed against the upper side of said leather, so that the latter is forced down beneath the upwardly and backwardly turned portion *j* into the recess *m* and spaces *n*. The rear part of the plate or jaw *b* is then pressed down toward the plate *c*, the tooth *i* piercing the leather and entering the slot *l*. The cord or connection *d* is looped through the eyes *h p*, so that when tension is brought thereon the rear ends of the said jaws or plates will be held together, the forward serrated edges being similarly held together by the backward turn or bend of the edge *j*. The pressure of the jaws together tends to sharply bend the leather over the serrated edges of said jaws, so that said leather is held with great security.

The upturned bearings *k* serve to prevent the withdrawal of the edge *e* from the recess *m*. The piercing of the leather by the pin

or tooth *i* adds security to the fastening, and the perforation of the leather is brought very near to the edge thereof, which is ordinarily waste material, and so the value is not reduced, as would often be the case if the piercing were nearer the center of said leather.

Having thus described the invention, what I claim as new is—

1. The improved clutching device for stretching leather, comprising jaws *b, c*, one of which consists of a plate having a serrated edge and an open eye, and the other of which has an upwardly and backwardly turned edge, upwardly-turned bearings, and having an eye *p*, all arranged and adapted to operate substantially as set forth.

2. The improved clutching device for stretching leather, comprising jaws *b, c*, one of which has an upwardly and backwardly turned straight edge and back from and parallel with said straight edge has separated up-turned bearings and an eye, and the other of said jaws having a straight edge adapted to enter beneath the upwardly and backwardly turned straight edge, the last said jaw being adapted to engage the separated back bearings and enter between the same and having

an eye and a cord or connection adapted to enter said eyes and hold the rear parts of the jaws toward one another, substantially as set forth.

3. The improved clutching device for stretching leather, comprising jaws *b, c*, one of said jaws having an upwardly and backwardly turned and serrated edge and back from said edge having separated bearings forming defined spaces *n, n*, said jaw being perforated to receive a pin or tooth and the other of said jaws having a serrated edge adapted to enter the recess formed beneath the backwardly-turned edge of the first said jaw, and adapted to enter the spaces formed between the upwardly and backwardly turned edge and the said separated bearings, and having a pin or tooth, and a cord or connection connecting the two said jaws, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 22d day of September, 1902.

JOHN SCHNEIDER.

Witnesses:

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