

No. 712,492.

Patented Nov. 4, 1902.

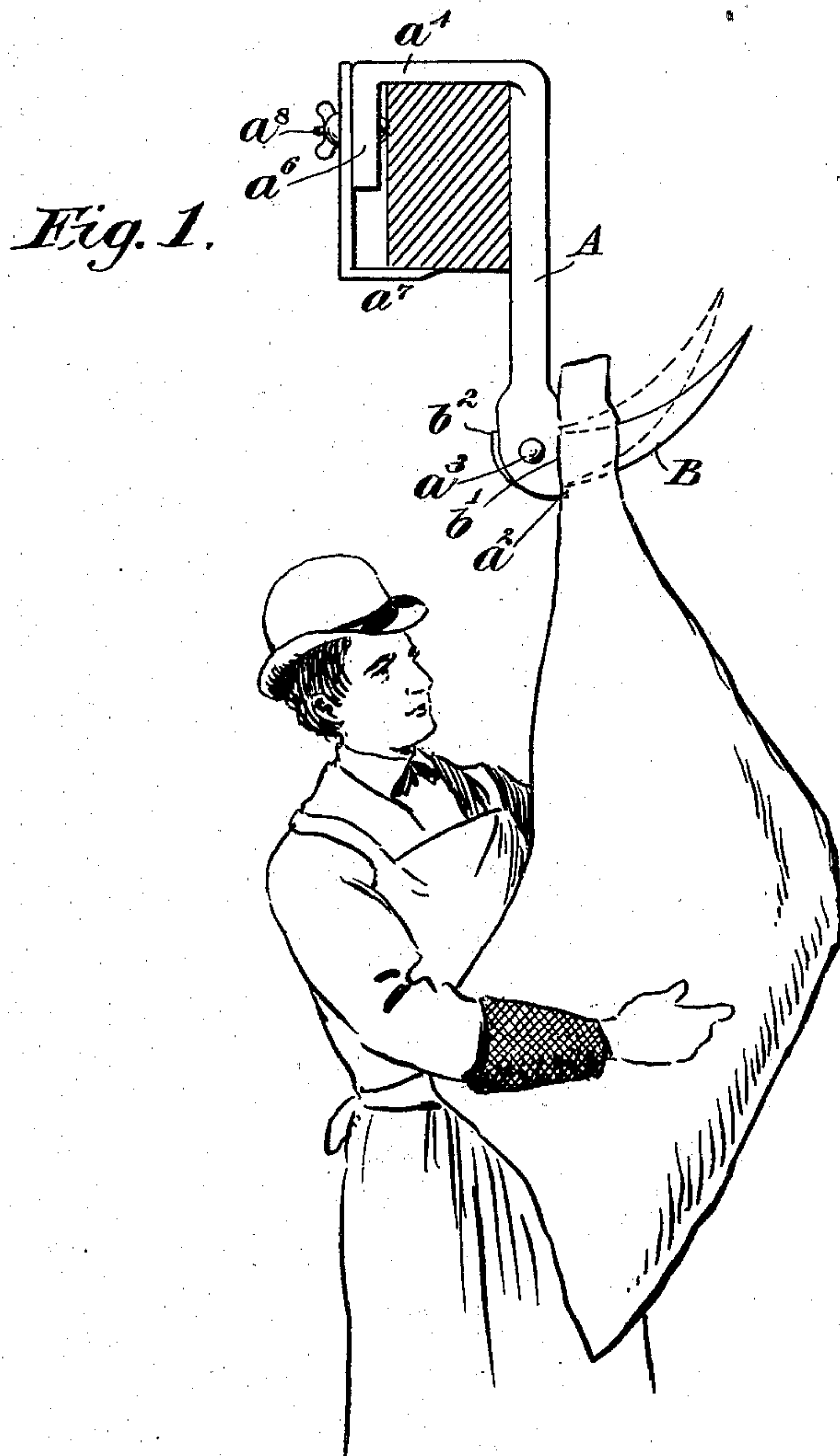
F. D. BROGA.

MEAT HOOK.

(Application filed May 27, 1901.)

(No Model.)

3 Sheets—Sheet 1.



Witnesses:

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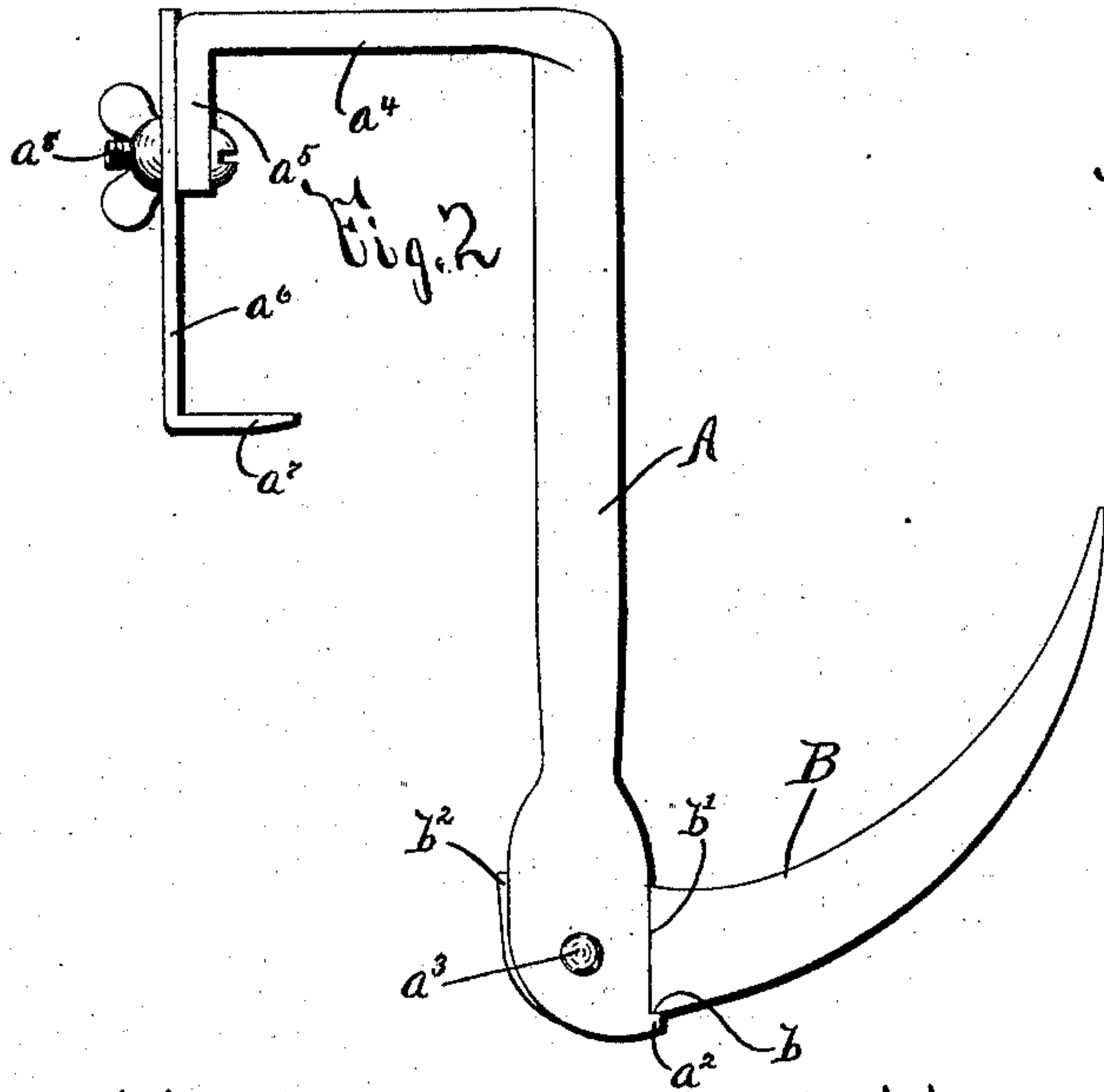


Fig. 3.

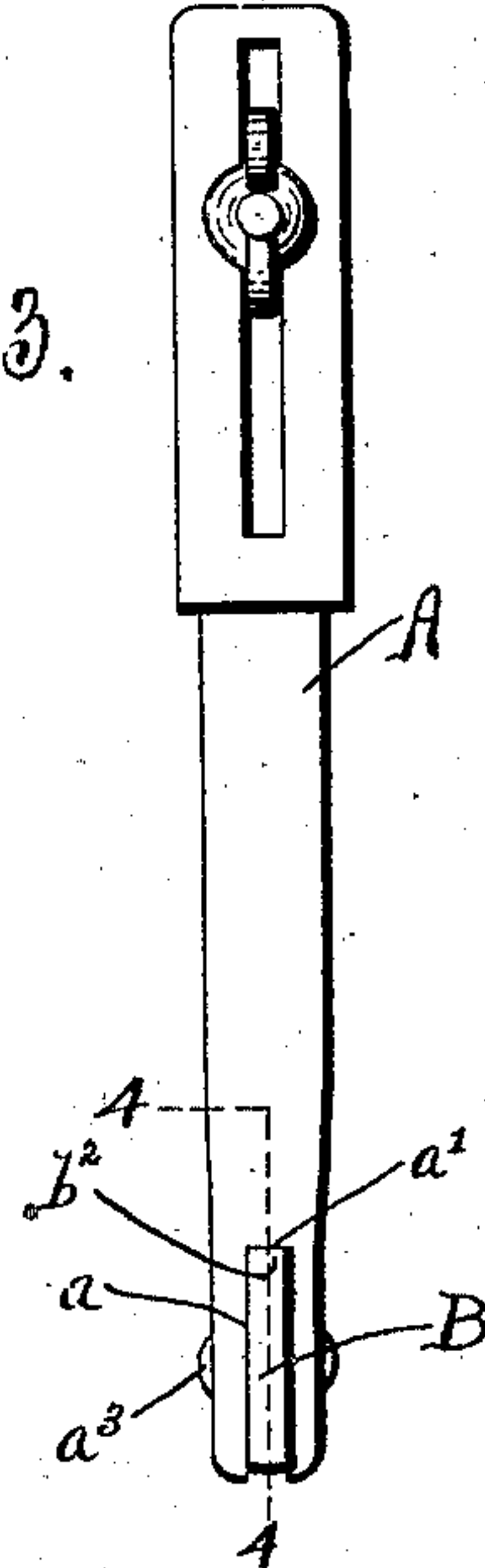


Fig. 4.

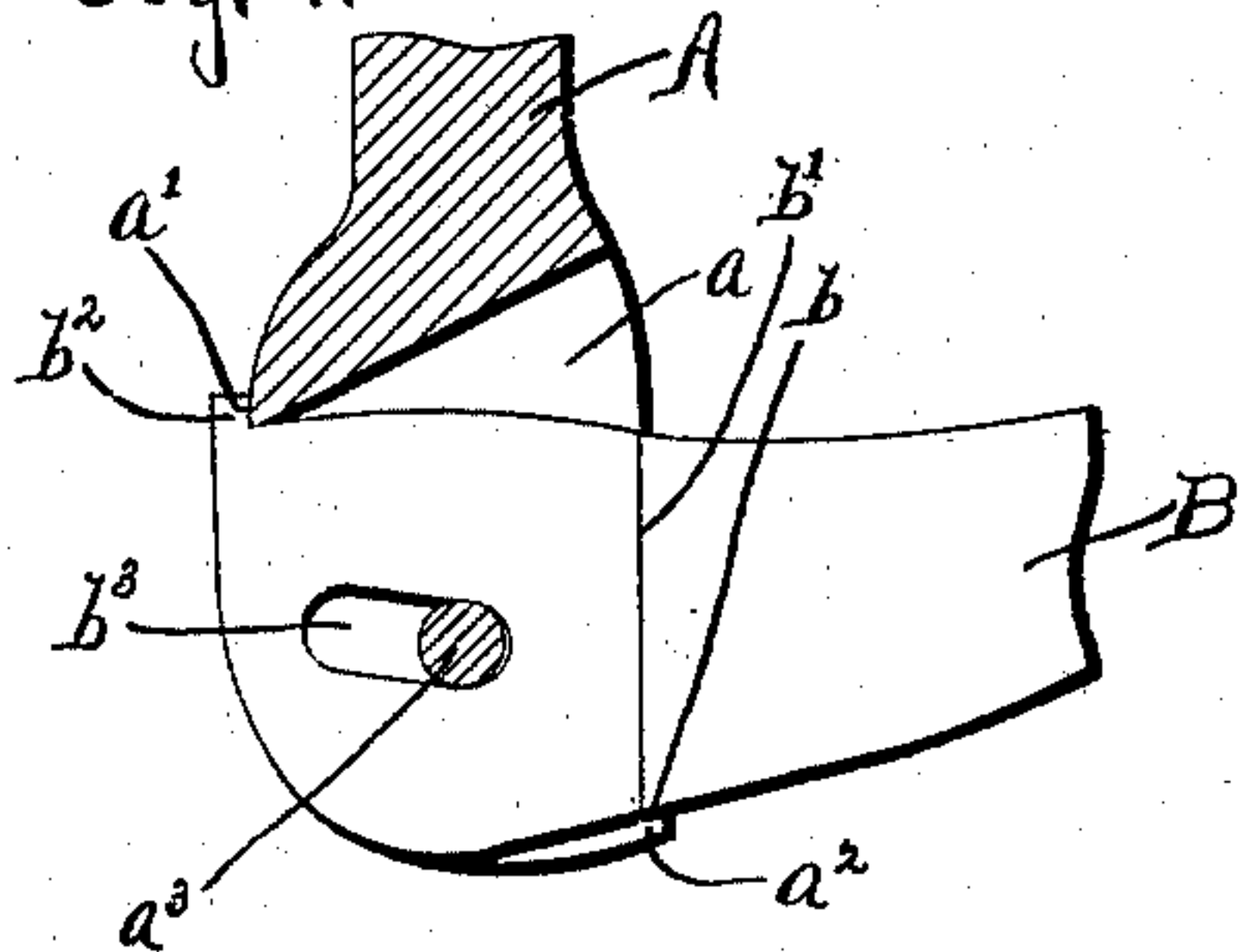


Fig. 5.

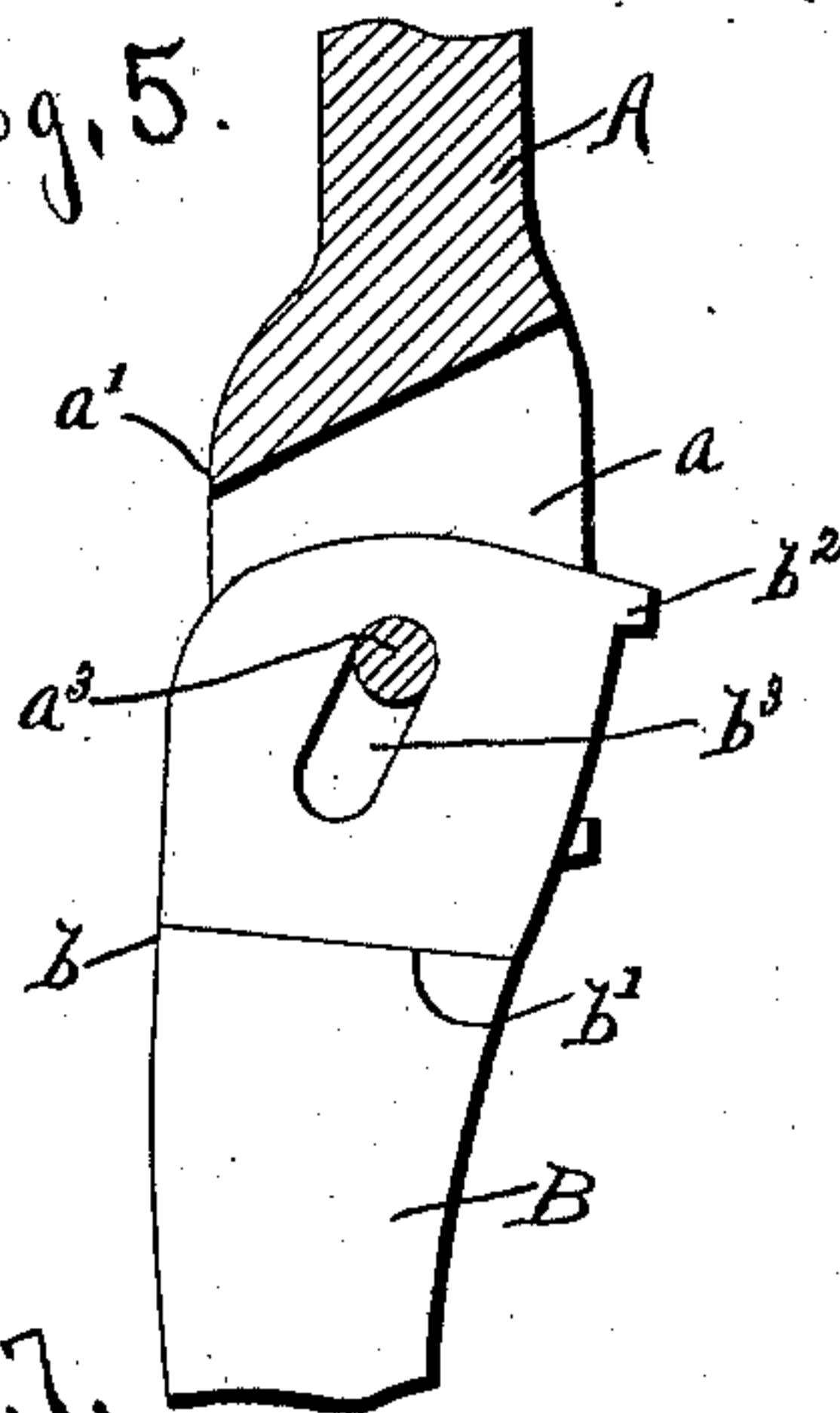


Fig. 6.

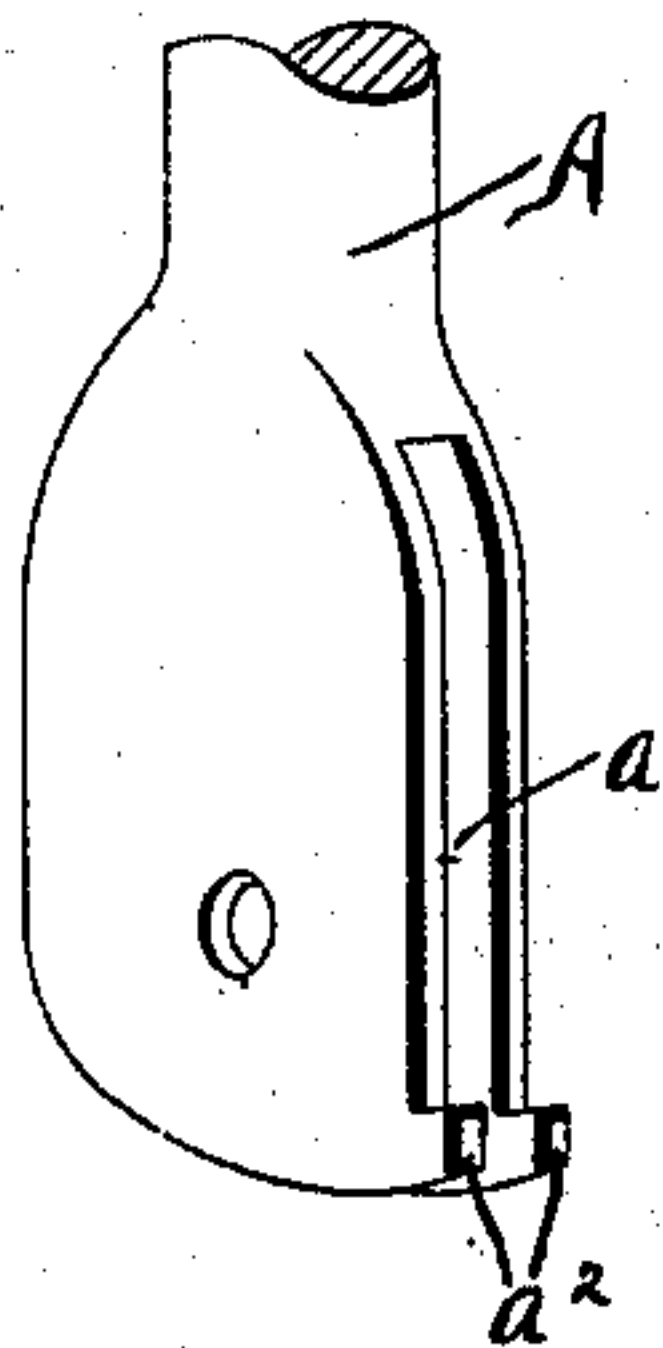
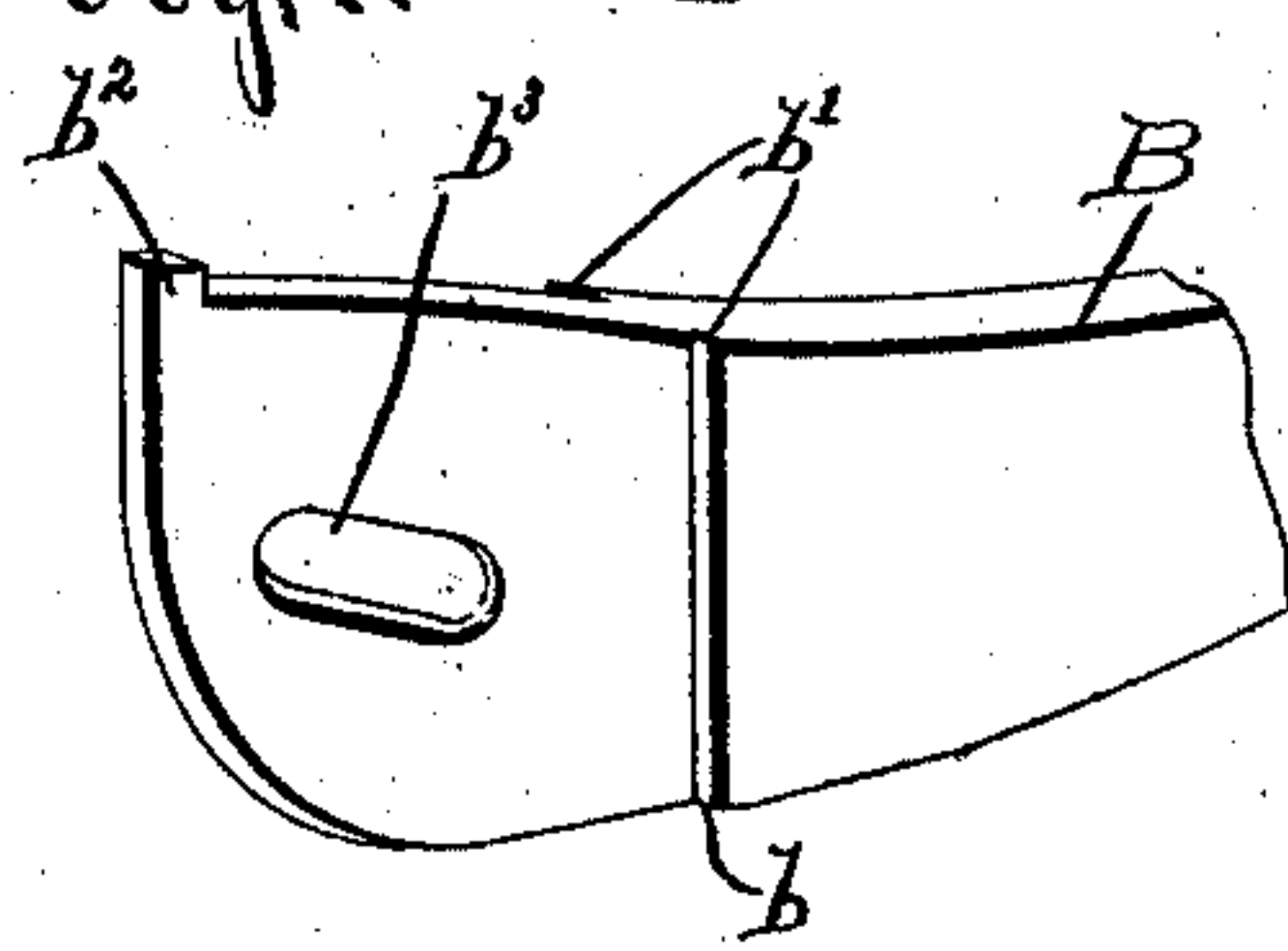


Fig. 7.



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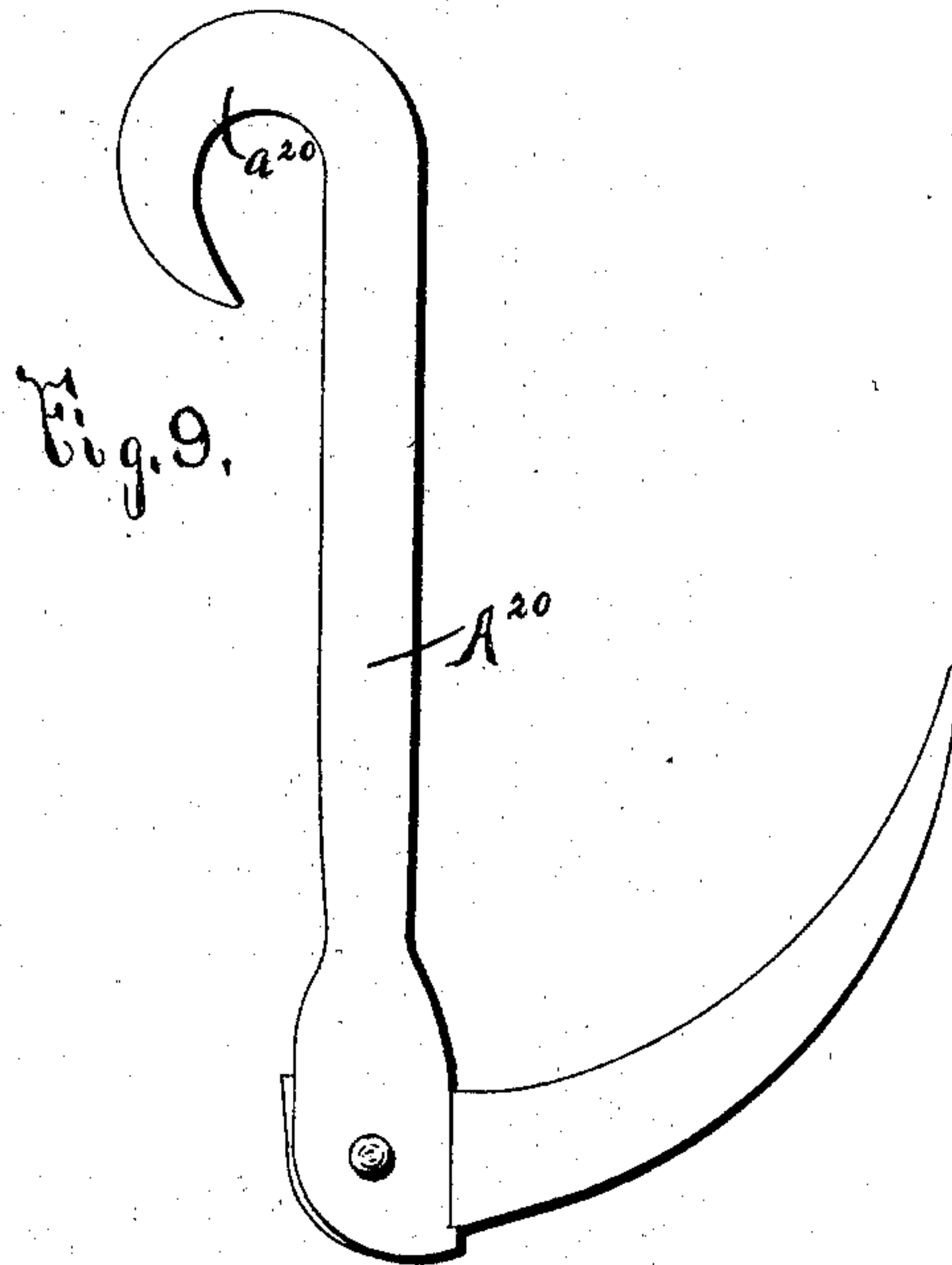
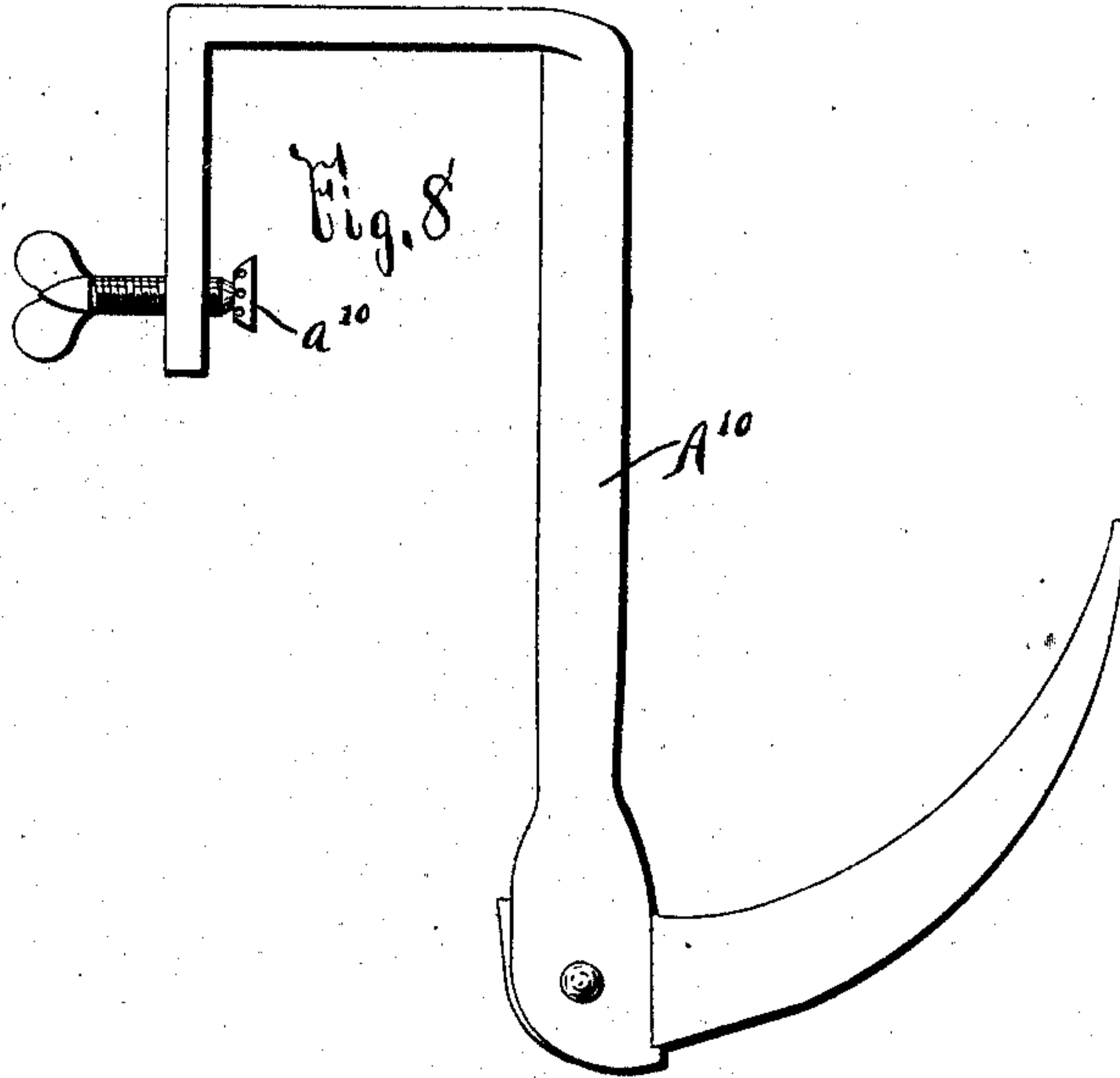
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(No Model.)

3 Sheets—Sheet 3.



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UNITED STATES PATENT OFFICE.

FRANKLIN D. BROGA, OF CAMDEN, NEW YORK.

MEAT-HOOK:

SPECIFICATION forming part of Letters Patent No. 712,492, dated November 4, 1902.

Application filed May 27, 1901. Serial No. 61,982. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN D. BROGA, of Camden, in the county of Oneida and State of New York, have invented a certain new and useful Hook, of which the following is a specification.

My invention has for its object the production of a hook, especially applicable for supporting meat, which is particularly simple in construction and practical in use and permits the ready disengagement therefrom of the quarter or other piece of meat and its inclosing wrapper supported by said hook; and to this end it consists in the combination, construction, and arrangement of the component parts of a hook, as hereinafter fully described, and pointed out in the claims.

In describing this invention reference is had to the accompanying drawings, forming part of this specification, in which like letters indicate corresponding parts in all the views.

Figure 1 is a side elevation of my hook and a quarter of beef and its inclosing wrapper supported thereby; Figs. 2 and 3 are respectively side and edge views of my hook, its hook member being shown in operative position. Fig. 4 is a sectional view taken on line 4-4, Fig. 3, the free end of the hook member being broken away. Fig. 5 is a view similar to Fig. 4 of the parts seen in said Fig. 4, the hook member being shown in its inoperative position. Figs. 6 and 7 are isometric views of the adjacent ends of the shank and hook member of my hook. Figs. 8 and 9 are elevations of modified constructions of said invention.

In the practical use of hooks for suspending quarters or other large pieces of meat, particularly in storage plants, cars, ships, and coolers, great difficulty is experienced in removing the meat from the hook, as it is of considerable weight and is firmly wedged upon the hook and must be elevated clear of the upwardly-projecting point thereof. By my invention the hook is provided with a movable hook member, and as the meat supported thereby is slightly elevated the hook member is moved with the meat from its operative position and falls downwardly, thus permitting ready detachment of said meat.

My hook consists, essentially, of a shank A and a hook member B. The shank A is of any desirable form, size, and construction, its upper end being provided with means suitably formed for attachment to any desired support, and its lower end being provided with a slot a , extending upwardly from the lower edge or surface of the shank through front and rear surfaces thereof and having its upper wall preferably extended downwardly toward its rear edge, as best seen in Figs. 4 and 5. Said lower end of the shank B is also preferably provided with a rear engaging surface a' above the rear portion of the slot a , shoulders or engaging faces a^2 projecting forwardly from the lower ends of the front edges of the side walls of the slot a , and a pivot a^3 connecting said side walls and arranged below and in front of the engaging surface a' and above and at the rear of the shoulders or engaging faces a^2 .

In the preferable construction of my invention, as seen in Figs. 1 to 7, inclusive, the upper end of the shank A is provided with a lateral extension a^4 , having a depending arm a^5 at its extremity, and is also provided with an engaging member a^6 , having its lower end formed with a forwardly-extending arm a^7 , arranged substantially parallel with the lateral extension a^4 and having its upper end adjustable lengthwise of the arm a^5 and held in position by any suitable means, as a bolt a^8 , passed through the arm a^5 and the upper end of the engaging member a^6 . When the upper end of the shank A is constructed as described, it may be readily secured to a rectangular bar or other similar support. It is obvious, however, that the upper end of the shank of my hook may be otherwise constructed, and in Fig. 8 I have shown a shank A^{10} , having its upper end provided with a clamping member a^{10} , adapted to engage any desirable support, and in Fig. 9 I have illustrated a shank A^{20} , having its upper end provided with an attaching-eye a^{20} .

The hook member B projects outwardly from the shank A, is here shown as provided with fixed engaging surfaces b and shoulders or engaging faces b' , and when in its operative position preferably extends outwardly

and upwardly from its rear end, which is reduced in thickness, is movable in a substantially vertical plane in the slot a of the shank A, is pivoted to the lower portion of the shank A by the pivot a^3 , and is provided with a fixed shoulder or engaging face b^2 and a slot b^3 . The surfaces b and the shoulders or engaging faces b' are directly in front of the reduced rear end of the hook member, and, as clearly seen in Figs. 2 and 4, the surfaces b engage the upper faces of the shoulders or faces a^2 below and in front of the pivot a^3 , and the shoulders or faces b' engage the front edges of the side walls of the slot a . The shoulder or face b^2 projects upwardly above the upper edge of the contiguous portion of the hook member and engages the surface a' of the shank A above and at the rear of the pivot a^3 , and the slot b^3 receives said pivot a^3 , usually extends upwardly from its front end, and permits the projecting portion or free end of the hook member to be moved upwardly and substantially lengthwise sufficiently to disengage the surfaces b and the shoulder or face b^2 from the shank A. During the upward movement of the free end of the hook member the upper part of the shoulder or face b' is forced against the front face of the contiguous part of the shank A at a point above and in front of the pivot a^3 and serves substantially as a sliding pivot for facilitating the movement of the surfaces b and the shoulder or face b^2 from their operative position.

In the use of my hook the hook member is firmly held in position with its projecting portion or free end extended outwardly and upwardly in its operative position and prevented from downward movement by the engagement of the shoulders or faces $a^2 b^2 b'$ with the surfaces $b a'$ and the front edges of the side walls of the slot a , and the meat or other article is engaged with said projecting portion or free end of the hook member and hangs pendant therefrom, as shown by full lines in Fig. 1. When removing the meat or other article suspended from the hook member, said meat or other article is moved upwardly slightly, as indicated by dotted lines in Fig. 1, thus moving the projecting portion or free end of said hook member engaged therewith upwardly and rocking the hook member on the upper part of the shoulder or face b' as a pivot a sufficient distance to disengage the surfaces b and the shoulder or face b^2 from the shoulders or faces a^2 and the surface a' , whereupon the projecting portion or free end of the hook member swings downwardly, as seen in Fig. 5, to its inoperative position in a plane beneath the shank A and the pivoted end of said hook member and permits ready detachment of said article therefrom. When it is desired to again use my hook, the projecting portion or free end thereof is movable upwardly from its inoperative position in a plane substantially beneath the lower edge

or surface of the shank to its operative position in an upper plane at an angle with the shank.

The construction and operation of my hook will now be understood upon reference to the foregoing description and the accompanying drawings, and it will be apparent that more or less change may be made in the construction of the parts thereof without departing from the spirit of my invention.

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

1. A hook comprising a shank, and a hook member pivoted to the shank and provided with a projecting free end movable upwardly from its operative position and provided with means engaging the shank for preventing downward movement of the free end of the hook member and with means for disengaging the hook member from its operative engagement with the shank upon the upward movement of the free end of the hook member, substantially as described.

2. A hook comprising a shank, and a hook member pivoted to the shank and provided with a projecting free end movable upwardly from its operative position and provided with means engaging the shank for preventing downward movement of the free end of the hook member and additional means having sliding contact with the shank for facilitating the movement of the former means from its operative position upon said upward movement of the free end of the hook member, substantially as described.

3. A hook comprising a shank, and a hook member pivoted to the shank and provided with a projecting free end movable upwardly from its operative position and provided with rigid faces engaging the shank, one face preventing downward movement of the free end of the hook member and the other face serving substantially as a pivot for the hook member upon said upward movement of the free end thereof, and thereby facilitating the movement of the former face from its operative position, substantially as described.

4. A hook comprising a shank having its upper portion provided with means for engaging a suitable support for the hook, said shank being provided with a slot extending upwardly from a lower surface through a front surface of the shank, and a hook member having one end movable in a substantially vertical plane in the slot and pivoted to the shank, said hook member projecting outwardly from the contiguous part of the shank and having its free end movable upwardly from its operative position and said hook member being provided with means engaging the shank and preventing downward movement of the free end of the hook member and with additional means engaging the shank above and in front of the pivot of the hook member and serving substantially as a pivot

for the hook member upon said upward movement of its free end and thereby facilitating the movement of the former means from its operative position, substantially as described.

5 In testimony whereof I have hereunto signed my name, in the presence of two attesting witnesses, at Syracuse, in the county of

Onondaga, in the State of New York, this day of May, 1901.

FRANKLIN D. BROGA.

Witnesses:

S. DAVIS,

D. LAVINE.