

No. 886,003.

PATENTED APR. 28, 1908.

C. H. F. KRAFT.
GAFF HOOK.

APPLICATION FILED AUG. 8, 1907.

2 SHEETS—SHEET 1.

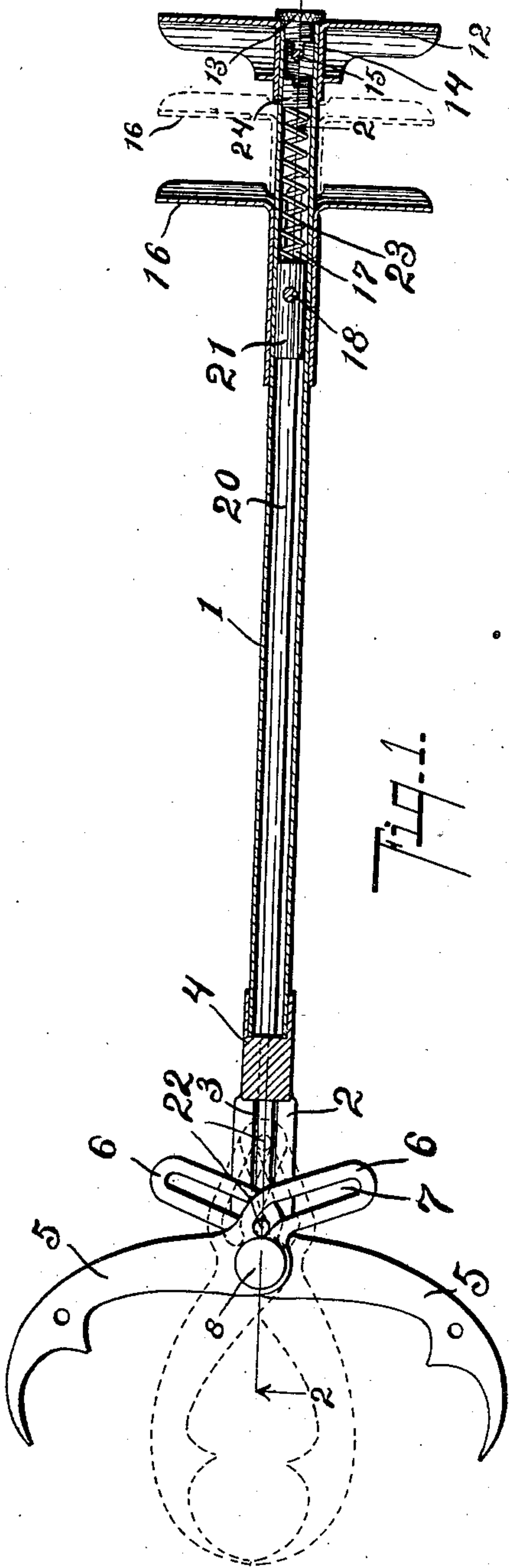


Fig. 1.

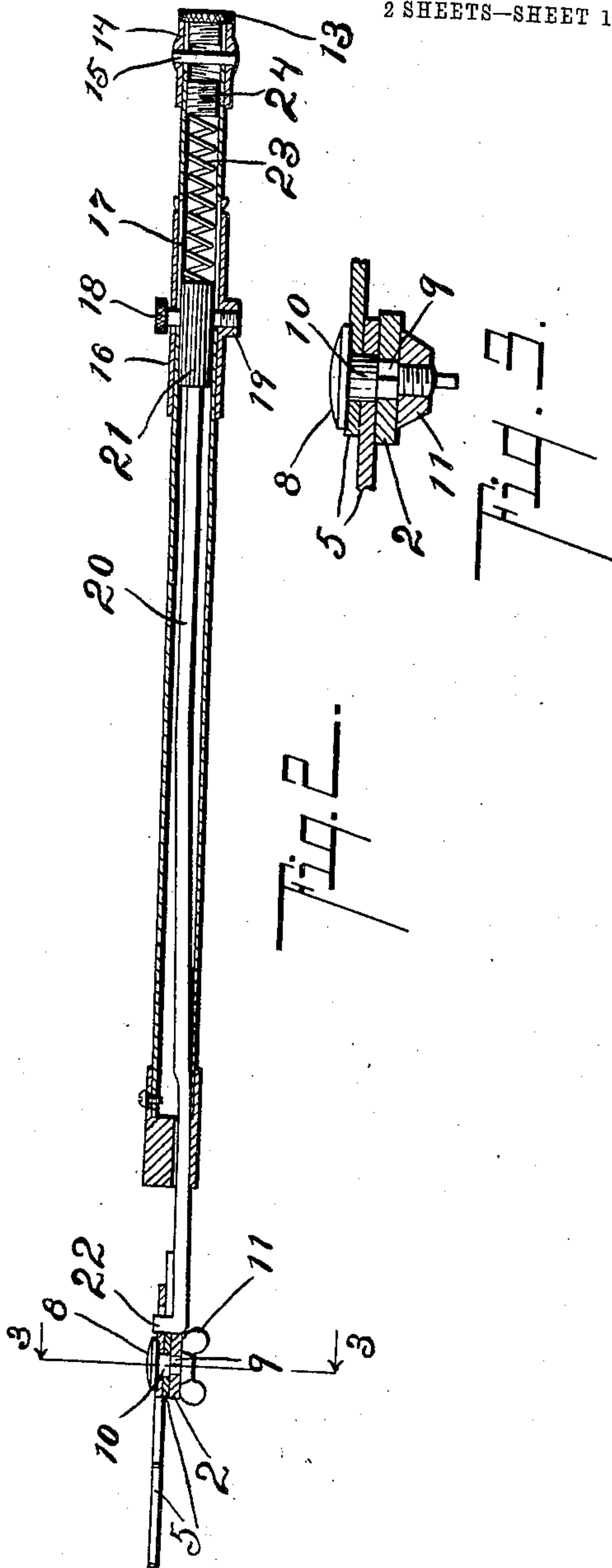


Fig. 2.

Fig. 3.

Witnesses

Lulu Greenfield
Clara Ellen Braden

By

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2 SHEETS—SHEET 2.

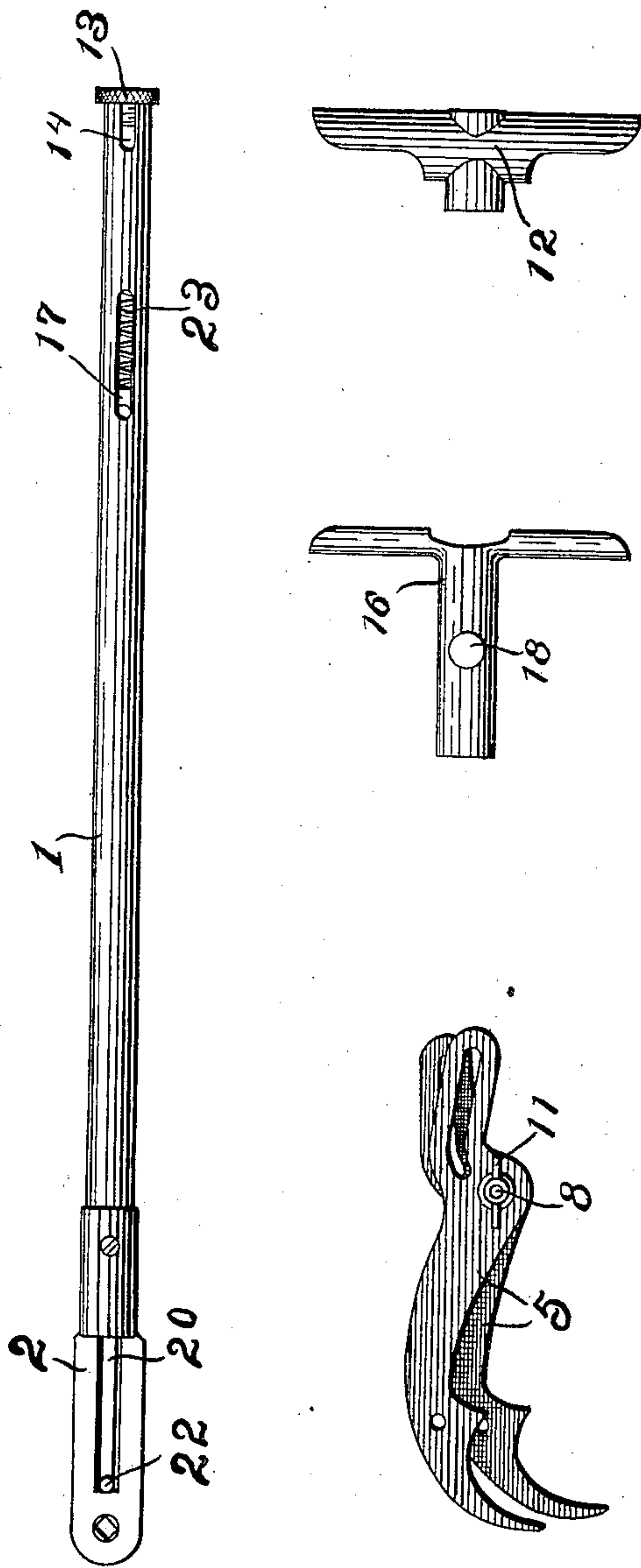


Fig. 4.

Witnesses

Lulu Greenfield
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UNITED STATES PATENT OFFICE.

CHARLES H. F. KRAFT, OF BATTLE CREEK, MICHIGAN, ASSIGNOR OF ONE-HALF TO
V. HOWARD WATTLES, OF BATTLE CREEK, MICHIGAN.

GAFF-HOOK.

No. 886,003.

Specification of Letters Patent.

Patented April 28, 1908.

Application filed August 8, 1907. Serial No. 387,729.

To all whom it may concern:

Be it known that I, CHARLES H. F. KRAFT, a citizen of the United States, residing at the city of Battle Creek, county of Calhoun, State of Michigan, have invented certain new and useful Improvements in Gaff-Hooks, of which the following is a specification.

This invention relates to improvements in gaff-hooks.

The main objects of this invention are: first, to provide an improved gaff-hook which is very convenient to use, and very effective in grasping an object; second, to provide an improved gaff-hook which is simple and economical in structure, may be made of light material, and, at the same time, is very strong and durable; and third, to provide an improved gaff-hook which may be readily disassembled or knocked down for convenience in packing and one which can be readily reassembled by the user.

Further objects, and objects relating to details of construction, will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification.

The invention is clearly defined and pointed out in the claims.

A structure embodying the features of my invention is clearly illustrated in the accompanying drawing, forming a part of this specification, in which,

Figure 1 is a plan of my improved gaff-hook, the handle being shown in longitudinal section; Fig. 2 is a side elevation in which the handle is shown in longitudinal section, taken on a line corresponding to line 2—2 of Fig. 1; Fig. 3 is a transverse detail section through the pivot for the jaws, showing the structural details thereof; and Fig. 4 is a view of the parts in their disassembled condition, showing how they are disconnected for storing or packing.

In the drawing, similar reference characters refer to similar parts throughout the several views, and the sectional views are taken looking in the direction of the little arrows at the ends of the section lines.

Referring to the drawing, the handle 1 is preferably formed of a piece of metal tubing, it being provided with a flattened shank portion 2 having a longitudinal slot 3 therein. The shank 2 is provided with a socket-like

ferrule 4 sleeved upon the body portion of the handle and secured thereto by means of a suitable screw or the like. The jaws 5 are arranged oppositely, the same being secured upon the end of the shank by means of the pivot 8. The jaws are provided with upwardly-projecting arms 6, having longitudinal slots 7 therein, the slots being preferably curved at their inner ends, as clearly appears from the drawing. The jaws are secured upon the shank by means of the pivot 8 which is provided with a squared portion 9 adapted to engage the shank 2 of the handle, and a round bearing portion 10 for the jaws; see the enlarged view, Fig. 3. The pivot is preferably secured by means of the thumb nut 11, so that it can be readily removed when desired to disassemble the structure.

The handle is provided with a relatively-fixed hand piece 12, which is sleeved upon the outer end of the handle and secured by means of the plug 13, threaded into the handle. To prevent the turning of the hand piece upon the handle, I provide the handle with a slot 14 at its outer end adapted to receive the pin 15 on the hand piece. The movable hand piece 16 is mounted to reciprocate upon the handle and is held against rotation, and its movement on the handle is limited, by means of the pin 18 which engages the longitudinal slot 17 of the handle. The sleeve portion of the movable hand piece is provided with an internally threaded boss 19 for the pin 18, so that the pin 18 can be readily removed which frees the movable hand piece.

The movable hand piece is connected to operate the jaws through the rod 20. This rod 20 is provided with a head 21 at its upper end, which is adapted to slide within the handle and with a laterally-projecting portion 22 at its lower end, which is adapted to engage the longitudinal slot 3 in the shank of the handle, and the slots 7 in the arms of the jaws. By this connection, when the movable hand piece is moved, the jaws are opened or closed. The slots 7 in the arms of the jaws are preferably curved so that the maximum of movement is secured in proportion to the size of the parts. The movable hand piece is held normally in its downward or open position,—and, consequently, the jaws are held open,—by means of the coiled spring 23, which is arranged in the handle to

engage the upper end of the head 21 of the rod, and the upper end of the spring is engaged by the threaded plug 24. By this means, the tension of the spring may be adjusted, and it is retained in the handle by the plug.

When it is desired to disassemble my improved gaff-hook, the same may be done by removing the thumb nut 11 of the jaw pivot, and the screws 13 and 18. This frees both the hand pieces and the jaws, so that they may be packed in a very compact space. This feature is also of advantage as it facilitates the assembling in the manufacture of the article.

My improved gaff-hook may be made of quite light material, and, at the same time, be sufficiently strong and rigid for ordinary requirements.

My improved gaff-hook is very effective and convenient to use, and is economical to produce and durable.

I have illustrated and described the same in detail in the form preferred by me on account of its structural simplicity and economy. I am, however, aware that it is capable of considerable variation in structural details without departing from my invention.

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

1. In a gaff-hook, the combination of a hollow handle, having a longitudinal slot therein towards its upper end; a flat shank for said handle having a longitudinal slot therein; a transversely-arranged relatively-fixed hand piece at the upper end of said handle; a transversely-arranged movable hand piece sleeved upon said handle; a pair of oppositely-arranged jaws pivotally mounted on said shank of said handle, said jaws being provided with rearwardly-projecting longitudinally-slotted arms, the inner ends of said slots being correspondingly curved; a rod arranged in said hollow handle having a laterally projecting portion arranged to engage said slots in said handle shank and in the arms of said jaws; a pin arranged through said slot at the upper end of said handle for connecting said movable hand piece to said rod; a coiled spring arranged in said handle to engage said rod; and a screw plug against which the outer end of said spring bears, threaded into said handle, whereby the tension of the spring may be adjusted.

2. In a gaff-hook, the combination of a hollow handle, having a longitudinal slot therein towards its upper end; a flat shank for said handle having a longitudinal slot therein; a transversely-arranged relatively-fixed hand piece at the upper end of said handle; a transversely-arranged movable hand piece sleeved upon said handle; a pair of oppositely-arranged jaws pivotally mounted on said shank of said handle, said jaws

being provided with rearwardly-projecting longitudinally-slotted arms; a rod arranged in said hollow handle having a laterally-projecting portion arranged to engage said slots in said handle shank and in the arms of said jaws; a pin arranged through said slot at the upper end of said handle for connecting said movable hand piece to said rod; a coiled spring arranged in said handle to engage said rod; and a screw plug against which the outer end of said spring bears, threaded into said handle, whereby the tension of the spring may be adjusted.

3. In a gaff-hook, the combination of a hollow handle; a flat shank for said handle having a longitudinal slot therein; a transversely-arranged relatively-fixed hand piece at the upper end of said handle; a transversely-arranged movable hand piece sleeved upon said handle; a pair of oppositely-arranged jaws pivotally mounted on said shank of said handle, said jaws being provided with rearwardly-projecting longitudinally-slotted arms, the inner ends of said slots being correspondingly curved; a rod arranged in said hollow handle to engage said slots in said handle shank and in the arms of said jaws, said rod being connected to said movable hand piece; a coiled spring arranged in said handle to engage said rod; and a screw plug against which the outer end of said spring bears, threaded into said handle, whereby the tension of the spring may be adjusted.

4. In a gaff-hook, the combination of a hollow handle; a flat shank for said handle having a longitudinal slot therein; a transversely-arranged relatively-fixed hand-piece at the upper end of said handle; a transversely-arranged movable hand piece sleeved upon said handle; a pair of oppositely-arranged jaws pivotally mounted on said shank of said handle, said jaws being provided with rearwardly-projecting longitudinally-slotted arms; a rod arranged in said hollow handle to engage said slots in said handle shank and in the arms of said jaws, said rod being connected to said movable hand piece; a coiled spring arranged in said handle to engage said rod; and a screw plug against which the outer end of said spring bears, threaded into said handle, whereby the tension of the spring may be adjusted.

5. In a gaff-hook, the combination of a hollow handle, having a longitudinal slot therein towards its upper end; a flat shank for said handle having a longitudinal slot therein; a transversely-arranged relatively-fixed hand piece at the upper end of said handle; a transversely-arranged movable hand piece sleeved upon said handle; a pair of oppositely-arranged jaws pivotally mounted on said shank of said handle, said jaws being provided with rearwardly-projecting longitudinally-slotted arms, the inner ends of said slots being correspondingly curved; a rod

arranged in said hollow handle having a laterally projecting portion arranged to engage said slots in said handle shank and in the arms of said jaws; a pin arranged through said slot at the upper end of said handle for connecting said movable hand piece to said rod; and a spring arranged to hold said jaws normally open.

6. In a gaff-hook, the combination of a hollow handle, having a longitudinal slot therein towards its upper end; a flat shank for said handle having a longitudinal slot therein; a transversely-arranged relatively-fixed hand piece at the upper end of said handle; a transversely-arranged movable hand piece sleeved upon said handle; a pair of oppositely-arranged jaws pivotally mounted on said shank of said handle, said jaws being provided with rearwardly-projecting longitudinally-slotted arms; a rod arranged in said hollow handle having a laterally-projecting portion arranged to engage said slots in said handle shank and in the arms of said jaws; a pin arranged through said slot at the upper end of said handle for connecting said movable hand piece to said rod; and a spring arranged to hold said jaws normally open.

7. In a gaff-hook, the combination of a hollow handle; a flat shank for said handle having a longitudinal slot therein; a transversely-arranged relatively-fixed hand piece at the upper end of said handle; a transversely-arranged movable hand piece sleeved upon said handle; a pair of oppositely-arranged jaws pivotally mounted on said shank of said handle, said jaws being provided with rearwardly-projecting longitudinally-slotted arms, the inner ends of said slots being correspondingly curved; a rod arranged in said hollow handle to engage said slots in said handle shank and in the arms of said jaws, said rod being connected to said movable hand piece; and a spring arranged to hold said jaws normally open.

8. In a gaff-hook, the combination of a hollow handle; a flat shank for said handle having a longitudinal slot therein; a transversely-arranged relatively-fixed hand piece at the upper end of said handle; a transversely-arranged movable hand piece sleeved upon said handle; a pair of oppositely-arranged jaws pivotally mounted on said shank of said handle, said jaws being provided with rearwardly-projecting longitudinally-slotted

arms; a rod arranged in said hollow handle to engage said slots in said handle shank and in the arms of said jaws, said rod being connected to said movable hand piece; and a spring arranged to hold said jaws normally open.

9. In a gaff-hook, the combination of a handle; a relatively-fixed hand piece at the upper end of said handle; a movable hand piece sleeved upon said handle; a pair of oppositely-arranged pivotally-mounted jaws, said jaws being provided with rearwardly-projecting longitudinally-slotted arms, the inner ends of said slots being correspondingly curved; a rod connected to said movable hand piece and arranged to engage said slots in the arms of said jaws; and a spring arranged to hold said jaws normally open.

10. In a gaff-hook, the combination of a handle; a relatively-fixed hand piece at the upper end of said handle; a movable hand piece sleeved upon said handle; a pair of oppositely-arranged pivotally-mounted jaws, said jaws being provided with rearwardly-projecting longitudinally-slotted arms; a rod connected to said movable hand piece and arranged to engage said slots in the arms of said jaws; and a spring arranged to hold said jaws normally open.

11. In a gaff-hook, the combination of a handle; a movable hand piece; a pair of oppositely-arranged pivotally-mounted jaws; said jaws being provided with rearwardly-projecting longitudinally-slotted arms; a rod connected to said movable hand piece and arranged to engage said slots in the arms of said jaws; and a spring arranged to hold said jaws normally open.

12. In a gaff-hook, the combination of a handle; a movable hand piece; a pair of oppositely-arranged pivotally-mounted jaws, said jaws being provided with rearwardly-projecting longitudinally-slotted arms; and a rod connected to said movable hand piece and arranged to engage said slots in the arms of said jaws.

In witness whereof, I have hereunto set my hand and seal in the presence of two witnesses.

CHARLES H. F. KRAFT. [L. s.]

Witnesses:

MABEL B. WALKINSHAW,
L. H. SABIN.