

No. 855,368.

PATENTED MAY 28, 1907.

T. WATSON.
SNAP HOOK.

APPLICATION FILED NOV. 9, 1906.

Fig. 1.

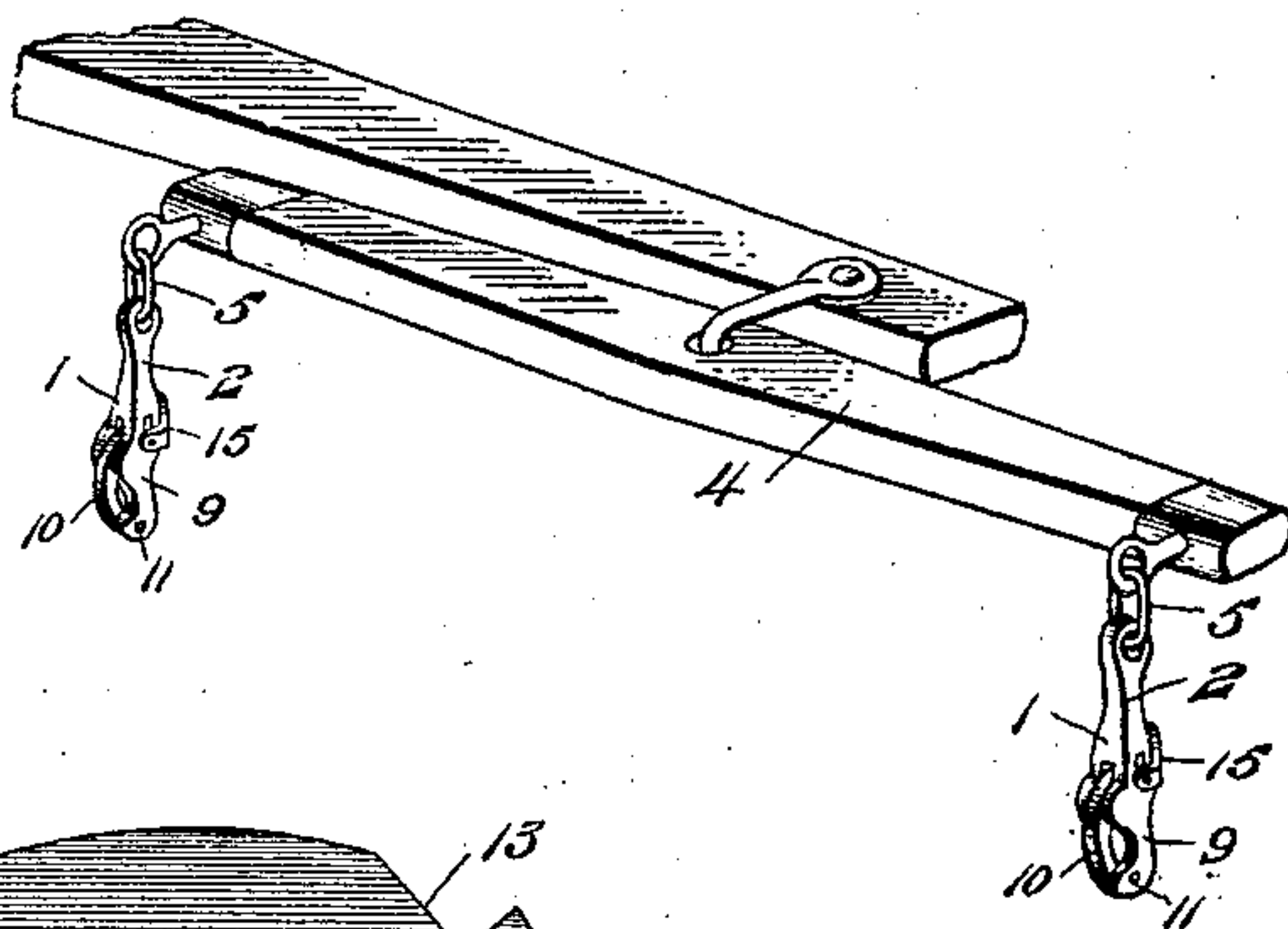


Fig. 2.

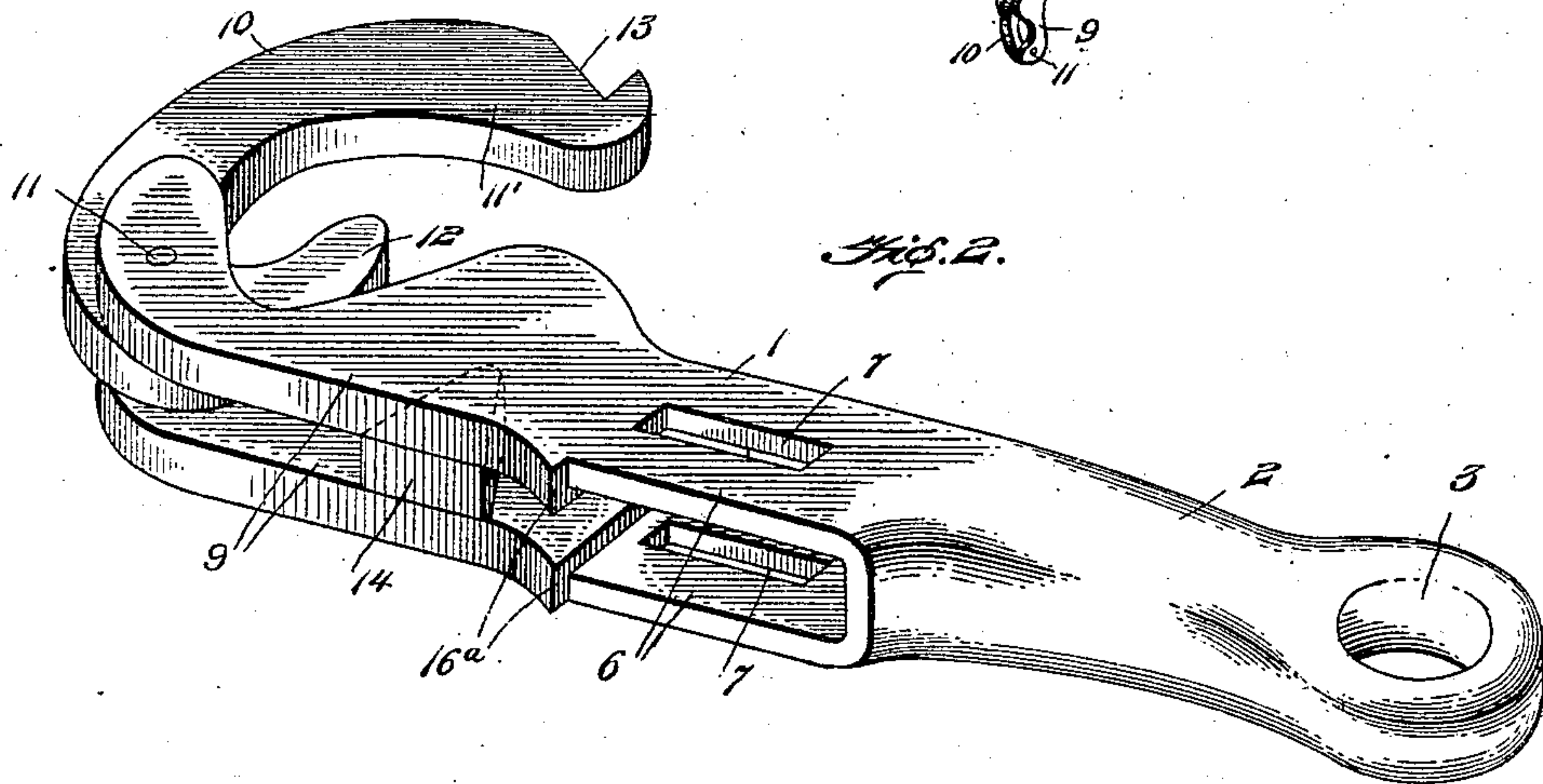


Fig. 3.

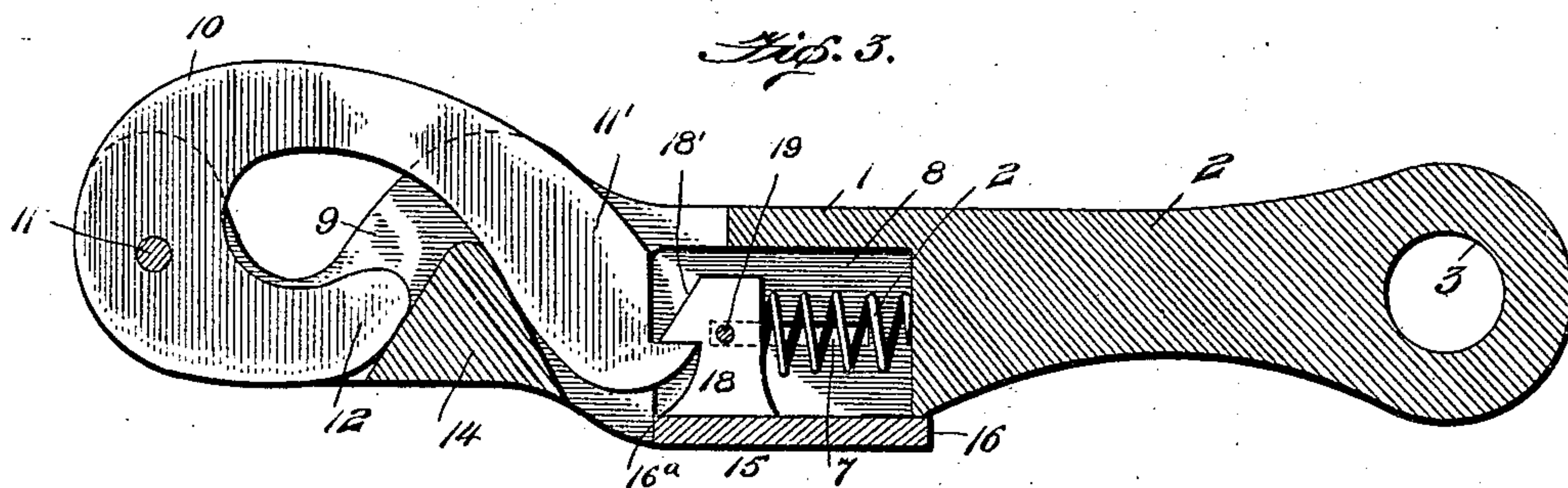
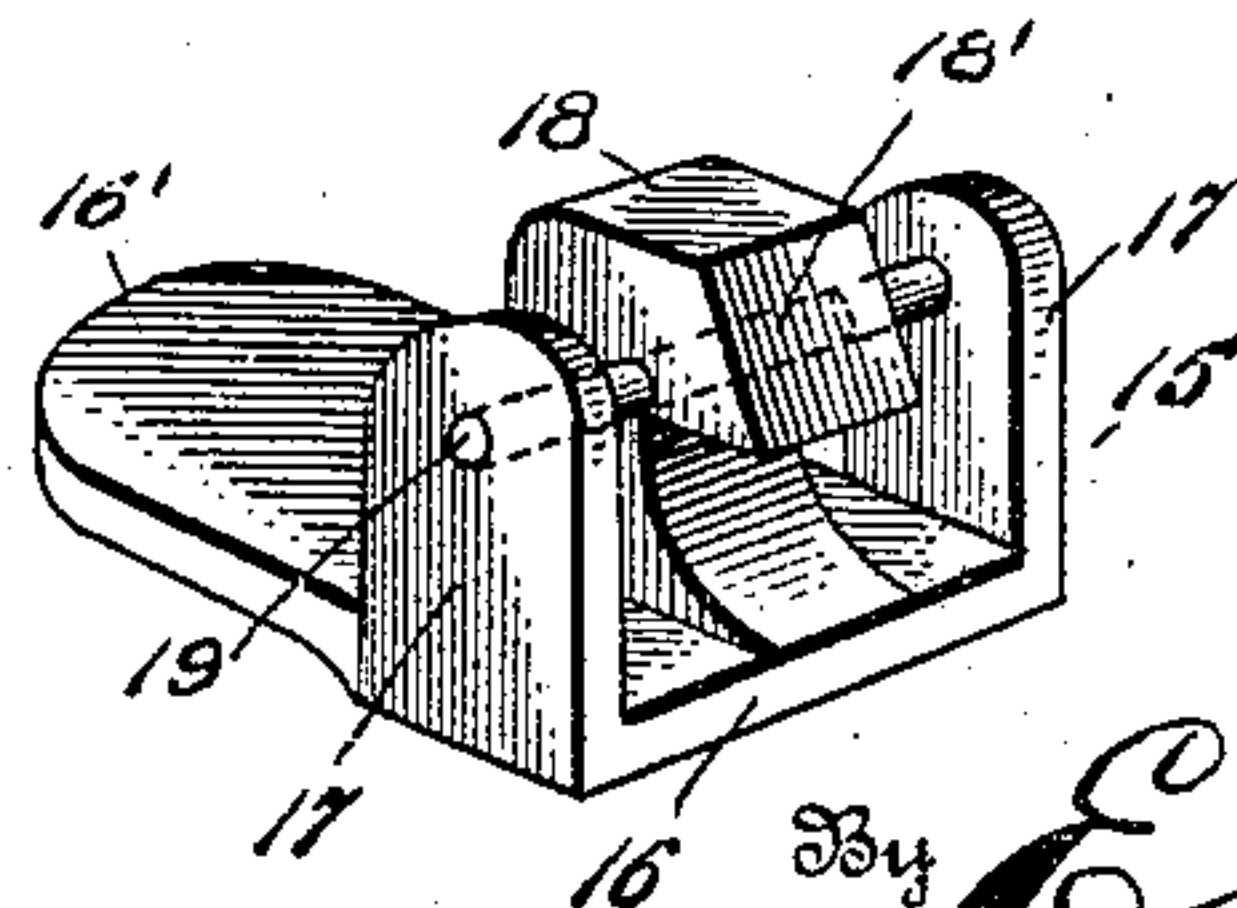


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

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SNAP-HOOK.

No. 855,368.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, THOMAS WATSON, a citizen of the United States, residing at Evanston, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Snap-Hooks, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to improvements in snap hooks.

The object of the invention is to improve the construction of snap hooks, and to provide a simple and comparatively inexpensive device, which is efficient in operation, and durable in structure.

With this and other objects in view, the invention consists of certain novel constructions, combinations, and arrangements of parts, as will be hereinafter fully described and claimed.

In the drawing: Figure 1 is a perspective view of a pair of my devices, constructed in accordance with the present invention, attached to a swingle-tree. Fig. 2 is an enlarged, inverted, perspective view of a snap hook constructed in accordance with the present invention, and having the spring-pressed catch removed. Fig. 3 is a longitudinal, sectional view of the snap hook, constructed in accordance with the present invention. Fig. 4 is a perspective view of the slidable catch.

Referring to the drawings, 1 designates the body of the snap hook. Integral with the body 1, is a stem 2, which stem is apertured at 3. In Fig. 1, I have shown a plurality of my snap hooks attached to a swingle-tree 4, preferably by positioning a link 5 in the apertures 3 of the stem 2; the links 5 being attached by any suitable means to the swingle-tree 4. In the sides 6 of the body 1, there are formed longitudinally extending, elongated slots 7. A compartment or pocket 8 is formed in the body 1 between the sides 6, 6. Integral with the body 1, are parallel arms 9, which constitute a bifurcated end of the snap hook. A tongue 10 is pivotally mounted, as at 11, between the arms 9. The tongue 10 comprises a primary hook 11' and an auxiliary hook 12. The primary hook 11' is provided near its outer end with a notch 13. Both the primary and auxiliary hooks 11' and 12, respectively, are curved throughout their length. A block 14, preferably substantially V-shaped, is positioned between

the arms 9, and constitutes a stop for limiting downward movement of the pivoted tongue 10. The primary hook 11' engages one of the edges or sides of the block 14, while the auxiliary hook 12 engages an opposite edge or side of said block. When the tongue 10 is in its closed position, as in Figs. 1 and 3, the tongue and arms 9 constitute a link, within which link any suitable attaching member may be secured. When the tongue 10 is removed from the position illustrated in Fig. 3 to an opened position, Fig. 2, it will be seen that if an attaching member was in engagement with the tongue positioned between the primary and auxiliary hooks 11 and 12, respectively, the auxiliary hook 12 would assist in lifting the attaching member, and as the tongue swung upon its pivot 11, the attaching member would be permitted to ride over the primary hook 11', and consequently, be removed off of the tongue 10. It will, therefore, be seen that the tongue is substantially C-shaped, and is pivoted intermediate its ends, preferably, near its center. When the substantially C-shaped tongue 10 is in its closed position, the block or stop 14 will fit between a portion of the hooks 11' and 12.

A slidable catch 15 is assembled with the body. The catch 15 comprises a base-plate 16 provided with parallel, vertical, integral lugs 17, 17. The lugs 17 are secured near the forward end of the base-plate 16, thereby leaving its rear portion 16' unobstructed, so that when the catch is moved to its farthest position toward the stem 2, said rear portion 16' will extend beyond the body, and can be easily grasped by the operator manipulating the slidable catch. The vertical hook 18 of the catch 15 is preferably integral with the base-plate 16, and positioned between the lugs 17. A horizontal pin 19 extends through lugs 20 and hook 18. When the catch 15 is in its normal position upon the body 1, the lugs 17 will be positioned against and upon the outside of the sides 6, and the pin or bolt 19 will extend through the elongated apertures 6, thereby fastening the slidable catch upon the body. Positioned within the pocket or compartment 8 of the body 1 and pressing against the hook 18 is a yieldable member, as for instance, spring 21. The spring 21 normally exerts outward pressure upon the slidable catch, thereby holding hook 18 at one end of the

pocket or compartment 8, whereby it is always in position to retain the tongue 10 in a closed position, as in Fig. 3. It will be obvious that the hook 18 is adapted to engage the notch or cut-out portion 13 of tongue 10. The hook 18 is beveled at 18' to facilitate the locking of the tongue 10 in its closed position. The forward end of the base-plate 16 of the spring-pressed, slidable catch 15 is adapted to engage spurs or stops 16^a formed upon the sides 6 of the body 1. These spurs or stops 16^a limit forward movement of the catch 15. The compartment 8 is open at its bottom and the catch 15 constitutes closing means therefor, for preventing the entrance of foreign substances.

What I claim is:

1. In a snap hook, the combination of a body, a substantially V-shaped block carried by said body, a movable tongue provided with curved hooks, the hooks of said tongue adapted to be positioned upon and engage opposite sides of said block for limiting movement of the tongue, and means for locking said tongue upon said block.

2. In a snap hook, the combination of a body provided with sides having longitudinally-extending, elongated slots, arms secured to said body, a pivotally mounted tongue carried by said arms, slidable locking means carried by said body, and a pin extending through the elongated slots of said body and securing said locking means thereto, the locking means adapted to engage said tongue and retain it in a fixed position upon the arms.

3. In a snap hook, the combination with a body, a pivoted tongue carried by said body, of a slidable catch in engagement with said body and adapted to secure said tongue in a fixed position, said catch comprising a base-plate, vertical, parallel lugs integral with said base-plate, a hook integral with said base-plate and positioned between said lugs, and means securing said catch to said body.

4. In a snap hook, the combination with a body, and a movable tongue, of a catch for securing said tongue in a fixed position upon said body, said catch comprising a horizontal base-plate provided at one end with vertical lugs engaging the sides of said body, means engaging said lugs and body for holding said catch upon the body, a hook secured to said base-plate, and means for normally exerting pressure upon said catch for retaining the hook in engagement with said tongue.

5. In a snap hook, the combination with a body, of a movable tongue carried by said body, said body provided with a pair of depending stops or spurs integral with the lower portion thereof, a slidable catch engaging the under portion of said body and adapted to engage said stops for limiting movement of said catch, and means for securing the catch to said body.

6. In a snap hook, the combination with a body, provided with a compartment, a movable tongue carried by said body, a portion of the tongue adapted to extend into said compartment, of a catch in engagement with said body, said catch comprising a base, a lug positioned upon the outside of said body and secured to said base, fastening means carried by the body and engaging said lug and securing said catch upon the body, a hook positioned within said compartment and normally in engagement with said tongue, the hook secured to said base between its sides, and a spring normally holding the hook of said catch in engagement with said tongue.

7. In a snap hook, the combination with a body, and a movable tongue, of a catch carried by said body and normally in engagement with said tongue, said catch comprising a base positioned upon the outside of said body, a hook secured to said base and positioned entirely within said body, and means for securing said catch to said body.

8. In a snap hook, the combination of a body provided with a compartment and sides, said sides provided with elongated slots, a movable tongue carried by said body, a catch adapted to secure the tongue in a fixed position, said catch comprising a base provided with side-lugs, a central hook secured to said base, and a pin positioned within the elongated slots and extending through said lugs and hook.

9. In a snap hook, the combination of a body provided with an open-bottom compartment, a movable tongue carried by said body, and bodily-movable locking means carried by said body for securing said tongue in a fixed position, said locking means closing the bottom of said compartment.

10. In a snap hook, the combination of a body provided with a compartment closed at its top and open at its bottom, a movable tongue carried by said body, and a bodily-movable catch closing the bottom of said compartment and adapted to normally secure the tongue in a fixed position upon the body.

11. In a snap hook, the combination of a body provided with a compartment open at its bottom, a pivotally mounted tongue carried by said body and a portion adapted to extend into said compartment, a slidable catch closing the bottom of said compartment and provided with means extending into the compartment for engaging and securing the tongue in a fixed position.

12. In a snap hook, the combination of a body provided with a compartment open at its bottom, of a pivotally mounted tongue carried by said body, a slidable catch in engagement with said body and closing the bottom of said compartment, said catch provided with a hook extending into the compartment, the hook adapted to engage said

tongue for securing the same in a fixed position, means for normally exerting pressure upon said catch, a depending stop integral with said body and adapted to limit movement of said catch, and fastening means extending through said body and engaging said hook for securing said catch to said body.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

THOMAS WATSON.

Witnesses:

JOHN F. BOYER,
EMMA BOYER.