

N. KROMANN.

HARPOON.

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Patented Mar. 18, 1913

1,056,343.

Fig 1

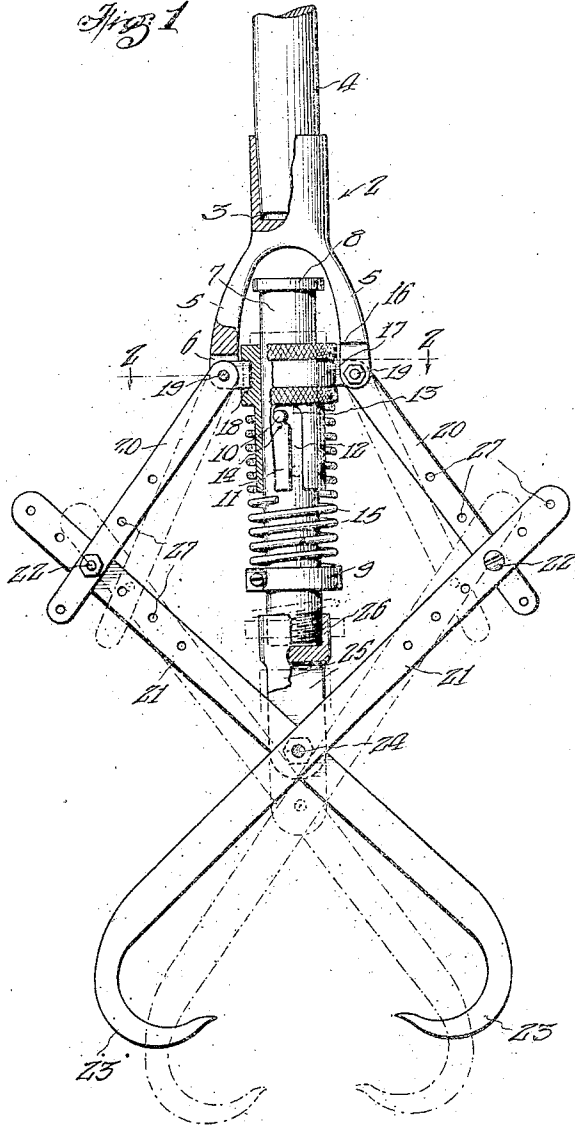
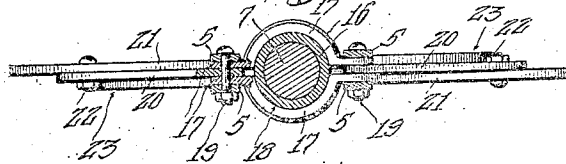


Fig 2



Witnesses,
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UNITED STATES PATENT OFFICE.

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HARPOON.

1,053,348.

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To all whom it may concern:

Be it known that I, NIELS KROMANN, a subject of the King of Denmark, residing at Redondo Beach, in the county of Los Angeles, State of California, have invented a certain new and useful Harpoon; 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.

This invention relates to an improved harpoon which though useful in many other relations is particularly adapted for harpooning and catching fish, catching floating timber, lifting and carrying railway ties and the like, and the invention may be said to consist in the provision of the novel features and in the novel and improved construction, arrangement and combination of parts as will be apparent from the description and claims which follow hereinafter.

Objects of the invention are to provide a device of the character specified which is simple in construction, cheap to manufacture, strong and durable, easy to adjust and manipulate, and quick and effective in action.

Other objects and the advantages of the invention will be apparent to those skilled in the art from a consideration of the following description of the preferred form of construction embodying the invention, taken in connection with the accompanying drawings in which—

Figure 1 is a partly broken and sectional view of the device in elevation, and Fig. 2 is a view taken on the line 2—2 of Fig. 1.

The part 2 which may have therein a socket 3 for a suitable handle 4 is formed to provide substantially oppositely disposed arms 5 which may have in the end part thereof recesses 6.

A rod 7 may be provided with a shoulder or stop 8 at one end thereof disposed between the arms 5 and it may be provided with a collar 9 arranged near the other end thereof and also with a pin 10 disposed intermediate of the shoulder or stop 8 and the collar 9. Slidably and rotatively fitted on the rod 7 is a sleeve 11 formed with a longitudinal slotted guideway 12 for the pin 10, said guideway having a short lateral offset 13 to provide a shoulder 14. The sleeve 11 may be provided with a preferably knurled boss 16, and a suitable spring 15 may be

interposed between the boss 16 and the collar 9. Arms 5 may be connected with the sleeve 11 by bars 17 preferably loosely fitted in a recess 18 in the boss 16 and having the end portions thereof extending into the recesses 6 and mounted on pins 19 suitably affixed on the arms 5. Links 20 may have one end thereof pivotally mounted on the pins 19 and have the other end thereof connected by pins 22 with one end of links 21 which latter are provided at the other end thereof with any suitable form of hooks or fangs 23 and are both disposed between the bifurcations 25 on the part 26 at the lower end of the rod 7 and are pivotally mounted intermediate of the ends thereof on a pin 24 suitably affixed to the bifurcations 25. The pins 22 may be passed through any of openings 27 in the adjacent ends of the links 20 and 21 to adjust the spread of the fangs 23 to the desired degree.

In use, it will be understood that the fangs 23 may be spread apart and the device set for operation by moving, against the pressure of the spring 5, the sleeve 11 downwardly or the rod 7 upwardly to have the pin 10 disposed at the upper end of the slotted guideway 12 and then giving the sleeve 11 a slight turn to have the pin 10 engage with the shoulder 14. By jarring the device the spring 15 untwists so that the pin 10 is released from engagement with the shoulder 14 and the spring then acts to move the sleeve 11 upwardly to engage with the shoulder or stop 8 thereby moving the links 20 and 21 to bring the fangs 23 close together.

While one form of construction in which the invention may be embodied has been particularly illustrated and described, there are many changes and modifications thereof that will readily occur to those skilled in the art, wherefore, the right is reserved to all such changes and modifications as do not depart from the spirit and scope of the invention as defined in the appended claims.

I claim:

1. In a device of the class specified, the combination of arms, a rod extending between the arms, a pin on the rod, a sleeve on the rod, said sleeve provided with a guideway for the pin having a short lateral offset to provide a shoulder for the pin to engage, a collar on the rod, a spring interposed between the sleeve and the collar, means for connecting the sleeve with the

arms, links pivotally connected with said means, a part on the rod, and links pivotally mounted on the part and having one end part thereof pivotally connected with the first links and having the other end part thereof formed to provide suitable fangs.

2. A device of the class specified, comprising substantially oppositely disposed arms, a rod extending between the arms and having a stop thereon, a pin on the rod, a sleeve on the rod, said sleeve having a guide-way for the pin having a short lateral offset to provide a shoulder for the pin to engage, a collar on the rod, a spring interposed between the sleeve and the collar, means for connecting the sleeve with the arms, links

pivotally connected with the arms, a part on the rod, and links pivotally mounted on the part and having one end part thereof adjustably pivotally connected with the first links and having the other end part thereof formed to provide suitable fangs.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses at Los Angeles, county of Los Angeles, State of California, this 10th day of July A. D. 1912.

NIELS KROMANN.

Witnesses:

ANNA B. DESSAU,
ALEX. H. LIDDERS.