

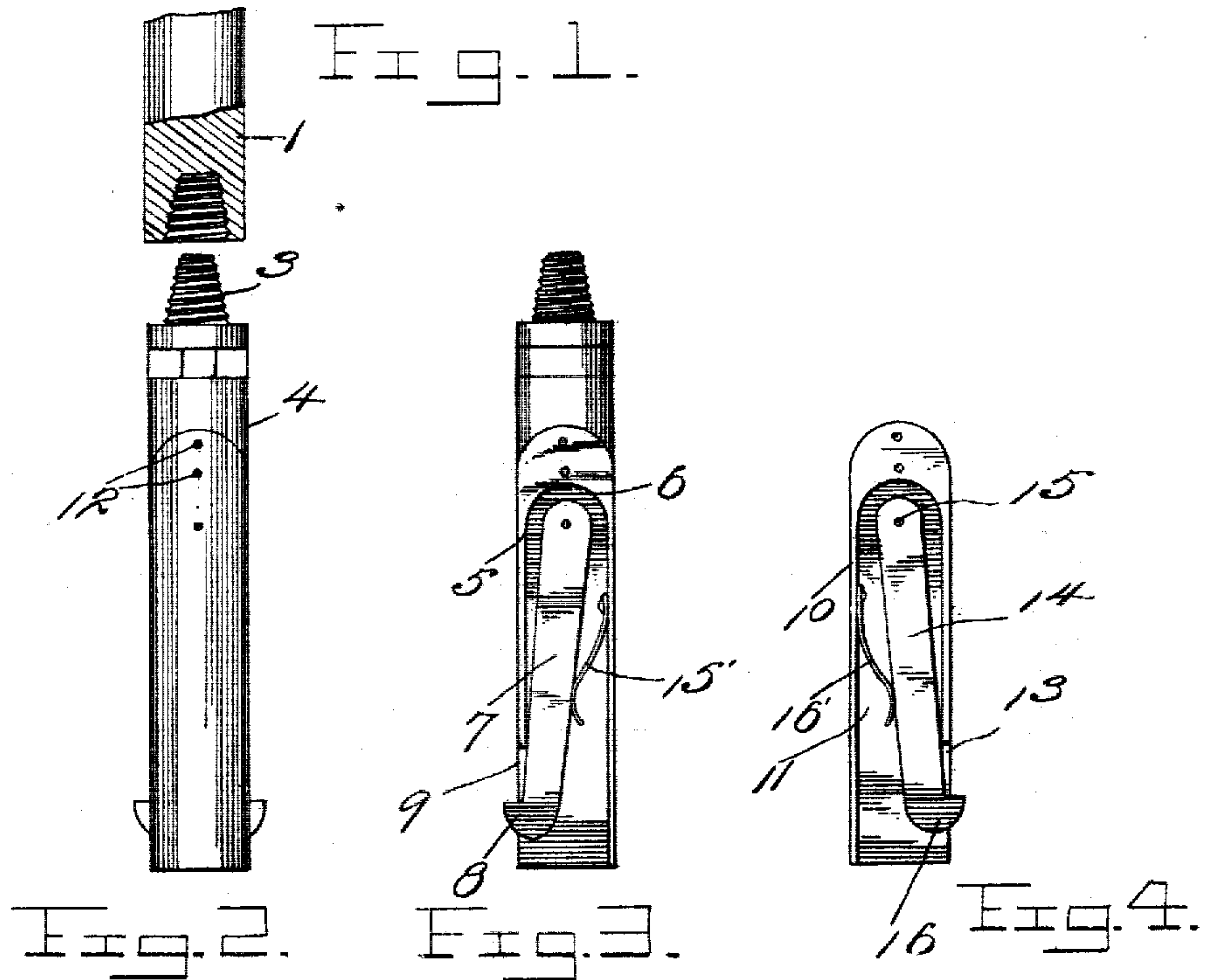
No. 814,338.

PATENTED MAR. 6, 1906.

W. J. WAGNER.

DEVICE FOR REMOVING RINGS FROM WELLS.

APPLICATION FILED JUNE 22, 1905.



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

WILLIAM J. WAGNER, OF EAST BRADFORD, PENNSYLVANIA.

## DEVICE FOR REMOVING RINGS FROM WELLS.

No. 814,338.

Specification of Letters Patent.

Patented March 6, 1906.

Application filed June 22, 1905. Serial No. 266,411.

*To all whom it may concern:*

Be it known that I, WILLIAM J. WAGNER, a citizen of the United States, residing at East Bradford, in the county of McKean, State of Pennsylvania, have invented certain new and useful Improvements in Devices for Removing Rings from Wells; 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 a device for removing rings from wells or the like.

One object of the invention is to provide an exceedingly simple, inexpensive, durable, and efficient means for attachment to a valve-stem for the withdrawal of rings from wells or other excavations.

Another object of the invention resides in the provision of a device embodying spring-actuated jaws for coöperation with each other for the engagement of rings or tubes to readily withdraw the same from a well or other excavation.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claim without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a view, partly in section and partly in elevation, of the valve-stem. Fig. 2 is an elevation of the invention. Fig. 3 is a detail view of one of the members. Fig. 4 is a detail view of the other member.

Referring now more particularly to the accompanying drawings, the reference character 1 designates a valve-stem having a screw-threaded recess 2 in its lower end for the reception of the screw-threaded end 3 of my device, the said screw-threaded end 3 of the device being fixedly arranged with respect to the member 4, which is provided with a recess 5 at its lower end and in one side thereof to form a shoulder 6, there being a dog 7 pivotally engaged in the said recess 5 and provided with a hooked end 8, designed for movement through the opening 9 at the lower end of the member 4, the said opening 9 communicating with the said recess 5.

A member 10, having a recess 11 in its inner side, is secured by means of suitable screws or rivets 12 to the member 4, the said member 10 having an opening 13 communicating with its recess 11, the said openings 9 and 13 being arranged upon opposite sides of the device. Pivotaly secured to the member 10 by means of a suitable pivot-pin 15 is a dog 14, having a hooked end 16, the said hooked end 16 being designed to operate through the opening 13 in the second member 10.

The hooks 8 and 16 of the dogs 7 and 14 are designed to normally protrude through the openings 9 and 13 by reason of the fact that the springs 15' and 16' have their ends arranged to bear against the backs of the corresponding dogs. The springs 15' and 16' are therefore disposed upon opposite sides of the device and are secured by means of a screw or rivet to the corresponding side wall of each member, as clearly shown in the drawings.

From the foregoing it will be readily understood that when the device is lowered into a barrel or casing of a well or the like the hooked ends 8 and 16 of the dogs will be forced inwardly of the device as soon as they engage the upper edge of a ring or tubing and that as soon as the beveled edges of the dogs have passed the bottom edge of the ring or tubing they, by reason of the aforesaid springs 15' and 16', spring outwardly, whereby the ring or tubing will rest at its bottom upon the shoulders *a* of the dogs and whereby the same may be readily pulled upwardly of the well in any suitable manner.

What is claimed is—

A device of the character described comprising oppositely-disposed members secured together, each member having an opening in its lower end, the said openings being disposed opposite to each other, a dog pivotally mounted in each member and provided with a hooked end for operation through the corresponding openings of the said members, and springs arranged contacting with each member to hold the hooked end thereof normally outwardly through the corresponding opening aforesaid.

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

WM. J. WAGNER.

Witnesses:

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