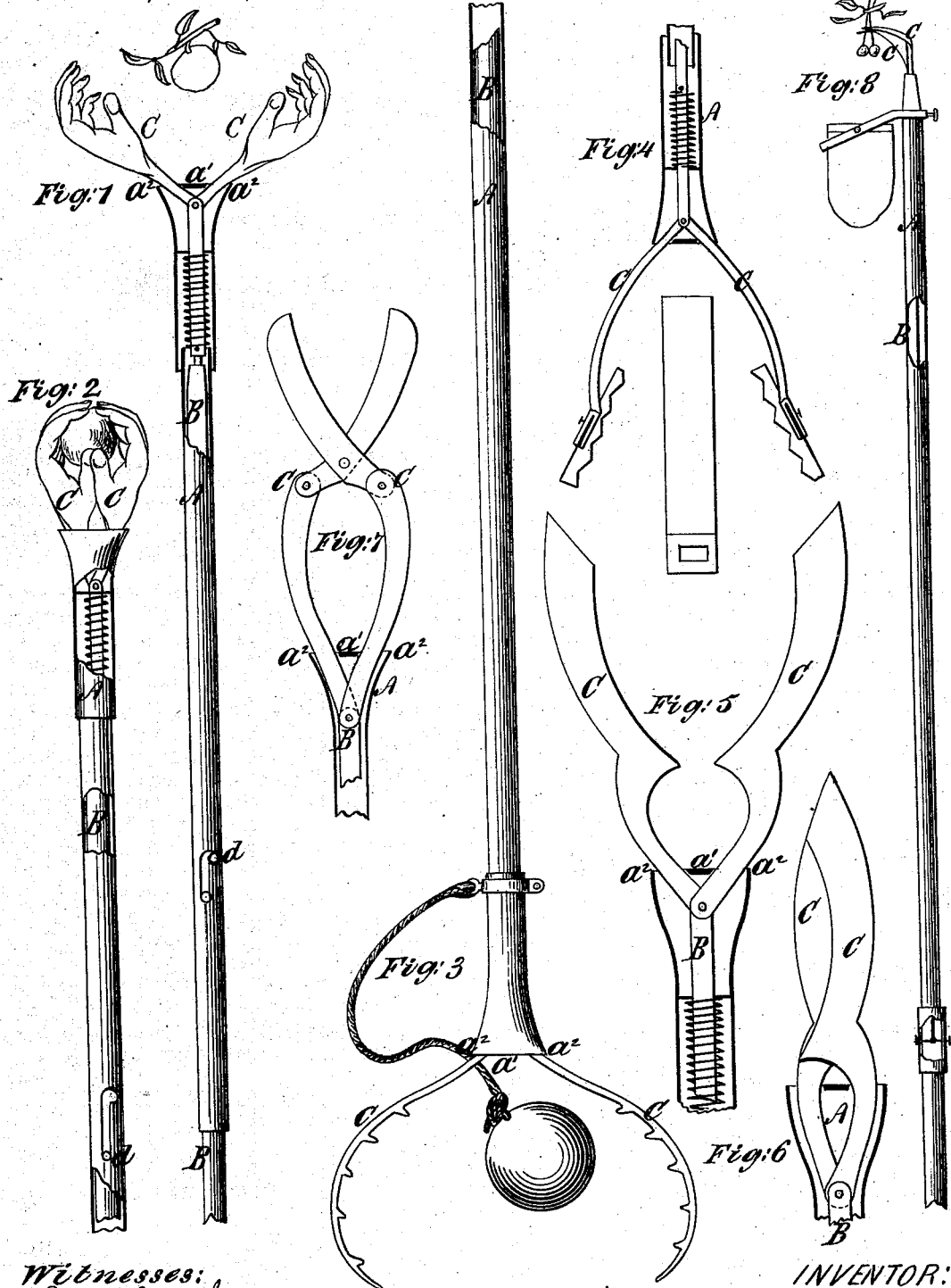


R. DE LEIDI.

Device for Transmitting Motion.

No. 163,003.

Patented May 11, 1875.



Witnesses:
Robert Kreuzbauer
Wilib Josiah Parkes.

INVENTOR:
Raphael De Leidi

UNITED STATES PATENT OFFICE.

RAPHAEL DE LEIDI, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN DEVICES FOR TRANSMITTING MOTION.

Specification forming part of Letters Patent No. **163,003**, dated May 11, 1875; application filed August 21, 1874.

To all whom it may concern:

Be it known that I, RAPHAEL DE LEIDI, of the city of Brooklyn, State of New York, have invented an Improved Apparatus for the Transmission of Motion, of which the following is a specification:

The object of my invention is, principally to extend the reach of the human arm in various manipulations. This is accomplished by a rod moving within a tube applied with various combinations, as represented in Figures 1 to 8. The better to illustrate the plan, human hands are represented in Figs. 1 and 2, as applied to the operating device.

In all the figures A is the tube, and B the rod or wire sliding within the tube. The two arms C C are pivoted to the rod B. The end of the tube A is flared, and closed in the middle, leaving the two side openings for the pivoted arms C C to pass through.

By taking hold of the tube A with one hand, and of the rod B with the other, and endwise motion given to the rod B outwardly will cause the arms C C to open, by bringing their inner sides in contact with the central portion a^1 , which partly closes the end of tube A; or they may be caused to open by placing an outwardly-pressing spring between the two arms C C; or these arms are made to spring out. In drawing the rod B inwardly, the outer sides of the arms C C will be pressed upon and made to approach each other by the outer edges a^2 a^2 of the tube A.

To retain the rod B within the tube in proper position to hold the arms C C open or closed, as the case may require, a pin, d , in the rod B, sliding within a slot in tube A, is made to enter a side slot, as shown, and as used in a bayonet-fastening.

A spring may be applied to tend either to open or to close the arms C C, as may best suit the special purpose intended.

In Fig. 3 the arms C C are properly shaped for use in grappling a drowning person from the water. In Fig. 4 the ends of the arms C C are arranged to take hold of a mop or similar article. Figs. 5 and 6 represent the application of the apparatus to a slasher, open and closed—in the latter position also serving as a spear. Fig. 8 represents its application in the lightest form, the rod B in this case being a wire, B, sliding in the wooden tube A, the wire being manipulated by a sleeve attached to it as represented. This figure represents its application as a fruit-gatherer.

I claim as my invention—

The combination of the tube A and rod B with the two pivoted arms C C, arranged and operating in relation to each other, substantially as represented and described.

RAPHAEL DE LEIDI.

Witnesses:

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