

S. POOLE.

Boat-Detaching Hooks.

No. 157,350.

Patented Dec. 1, 1874.

Fig 2

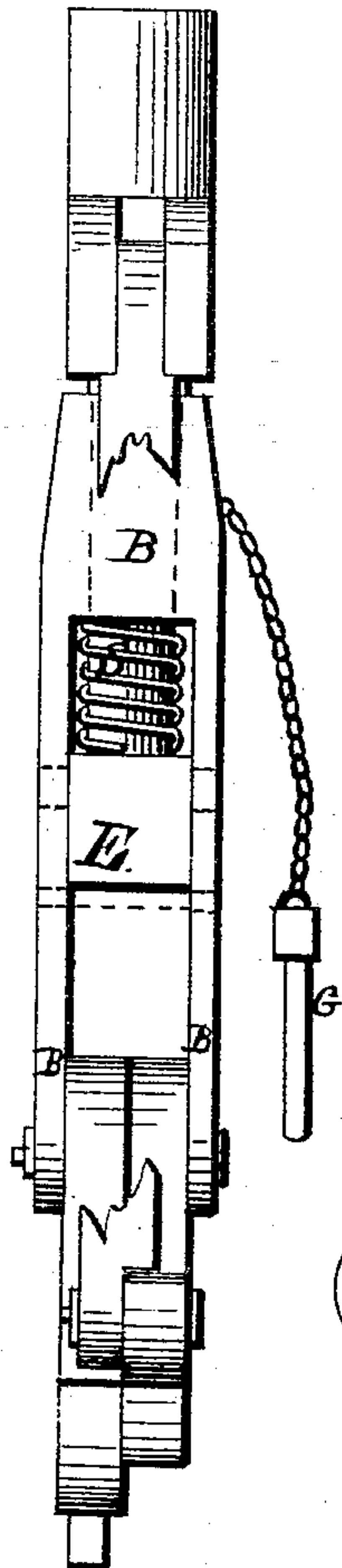
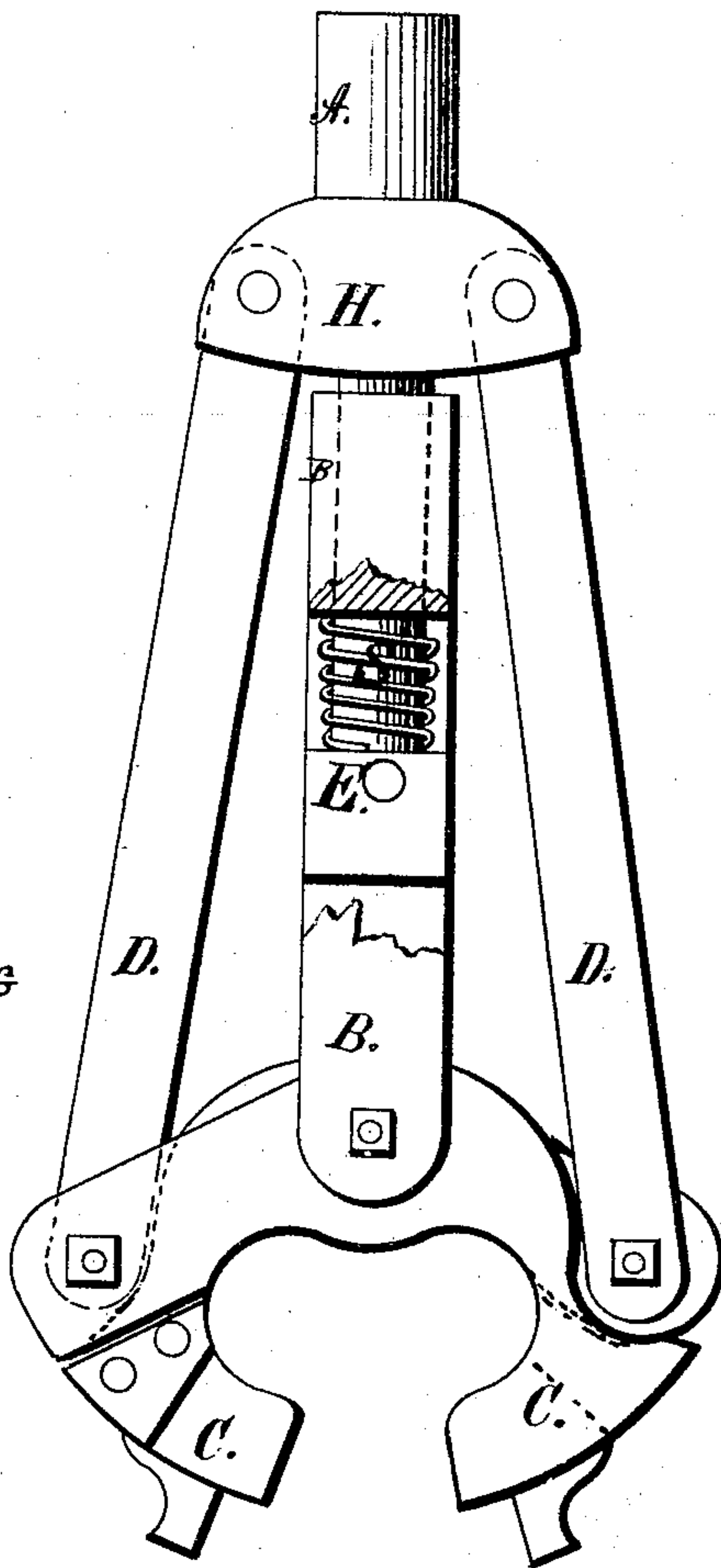


Fig 1



WITNESSES.
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SAMUEL POOLE, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN BOAT-DETACHING HOOKS.

Specification forming part of Letters Patent No. **157,350**, dated December 1, 1874; application filed May 25, 1874.

To all whom it may concern:

Be it known that I, SAMUEL POOLE, of Brooklyn, New York, have invented a new and useful Improvement in Detaching-Clasps, of which the following is a description:

The object of my invention is a detaching-clasp, to be used principally for readily detaching a boat from the tackles, by which it is hoisted out of water and suspended to the boat-davits; and the mode of its operation is such that when the boat is lowered and touches the water, the clasp at once opens and casts off the ring by which it suspended the boat, or it may be so used as to detach the boat by lanyards pulled by hand.

The accompanying drawing represents the instrument, in which Figure 1 is an elevation, and Fig. 2 a section.

A A is the stock of the clasp, the upper end of which is to be riveted into the strap of the block, or formed into a hook, as preferred. On this stock is a cross-head, H, projecting on either side, and forming jaws or lugs, to which the suspender-rods D D are attached by pins. Below the cross-head, the stock A is a round rod till it terminates in a square nut, E, firmly fixed to the stock by a thread and pin. Sliding on this stock is a socket, B, which is slipped up onto it before the nut E is attached, and between the nut and the upper end of the socket is a spiral spring, S, which may be pressed into a recess in the socket, and which presses the socket upward. The lower end of the socket forms two jaws, between which the two parts of a sister-hook, C C, are held by a pin, so that they are free to open or close around it. The outer ends of these sister-hooks are pinned to the lower ends of the suspender-rods D D.

When the instrument is free it rests in the position shown in the drawing, the coiled spring forcing and holding up the socket B, so as to open the clasp to admit the entrance of a ring or other object, to which it is desired to attach the clasp. When it is desired to make fast to a ring or other object, the clasp is brought so that the ring may be introduced between the jaws of the sister-hooks, and the socket B is then pressed downward, with the

effect of bringing the sister-hooks together and clasping the ring. The tackle is then set taut, and as it is set up the sister-hooks close until the nut E comes into contact with the socket at the upper end of the slot, in which it can move, and then the weight is suspended by the nut. If the sister-hooks are arrested in closing before the nut reaches the end of the slot, then the weight is suspended by the rods D D; but the proper action of the instrument is to take the weight by a direct draft through the stock, nut, and socket to the center-pin of the sister-hooks.

When it is desired to detach the suspended object it is necessary to lower it until it rests upon some support, and at once the clasp is opened by the action of the spring, and the object is liberated.

When used for a boat, the lowering of it into the water will detach the clasp so soon as the boat is water-borne, and the strain taken off the tackle.

When it is desired to keep the clasp attached, after the suspended weight has been otherwise supported, a pin, G, is passed through holes in the sides of the slot in the socket below the nut, when the spring is compressed, and this pin prevents the action of the spring from opening the clasp. A lanyard may be attached to this pin, and drawn, when it is desired, to liberate the clasp. A man standing in a boat may have lanyards attached to the pins of both clasps, and by pulling on them liberate the boat, after it is water-borne, at pleasure.

What I claim as my invention, and desire to secure by Letters Patent, is—

A detaching-clasp composed of sister-hooks suspended through their center-pin by a stock and socket combined with a spring; which tends to raise the center-pin, and through their outer ends by suspender-rods connected to the stock, substantially as described.

In testimony whereof I have hereunto signed my name this 23d day of May, A. D. 1874.

SAMUEL POOLE.

Witnesses:

EWELL A. DICK,

HENRY R. ELLIOTT.