

W. A. Devon.
Boat Detaching.

N^o 61,406.

Patented Jan. 22, 1867.

Fig. 1.

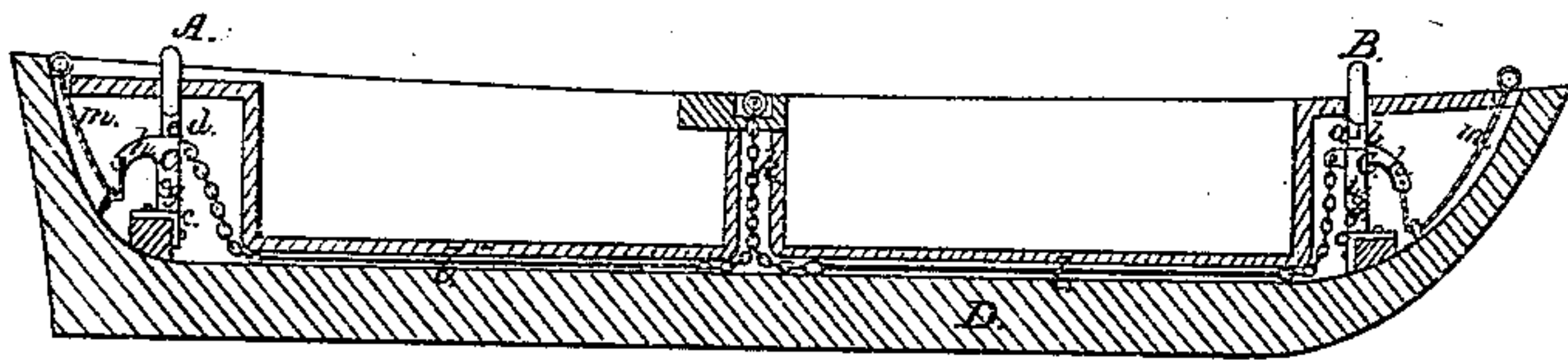


Fig. 2.

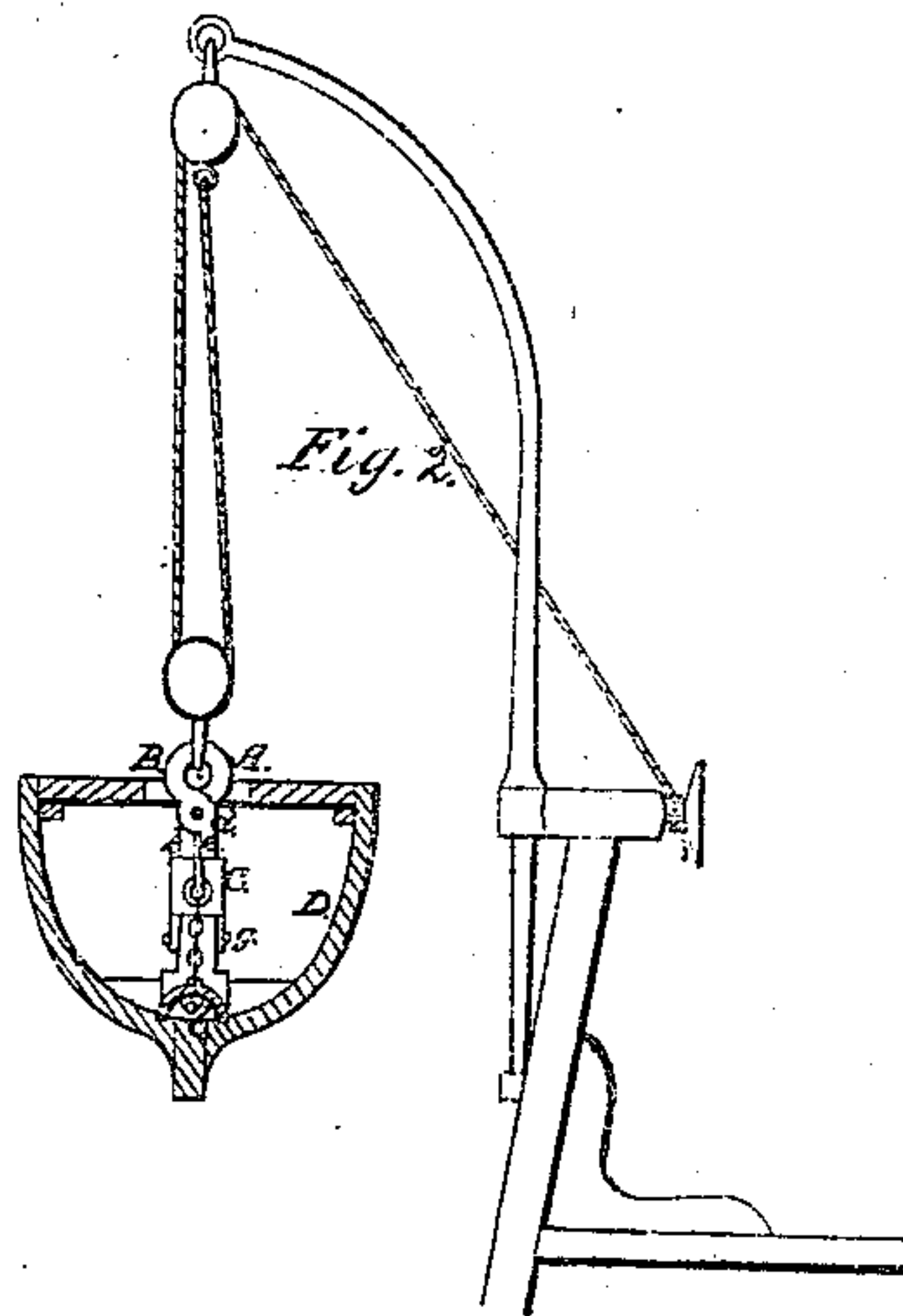


Fig. 3.

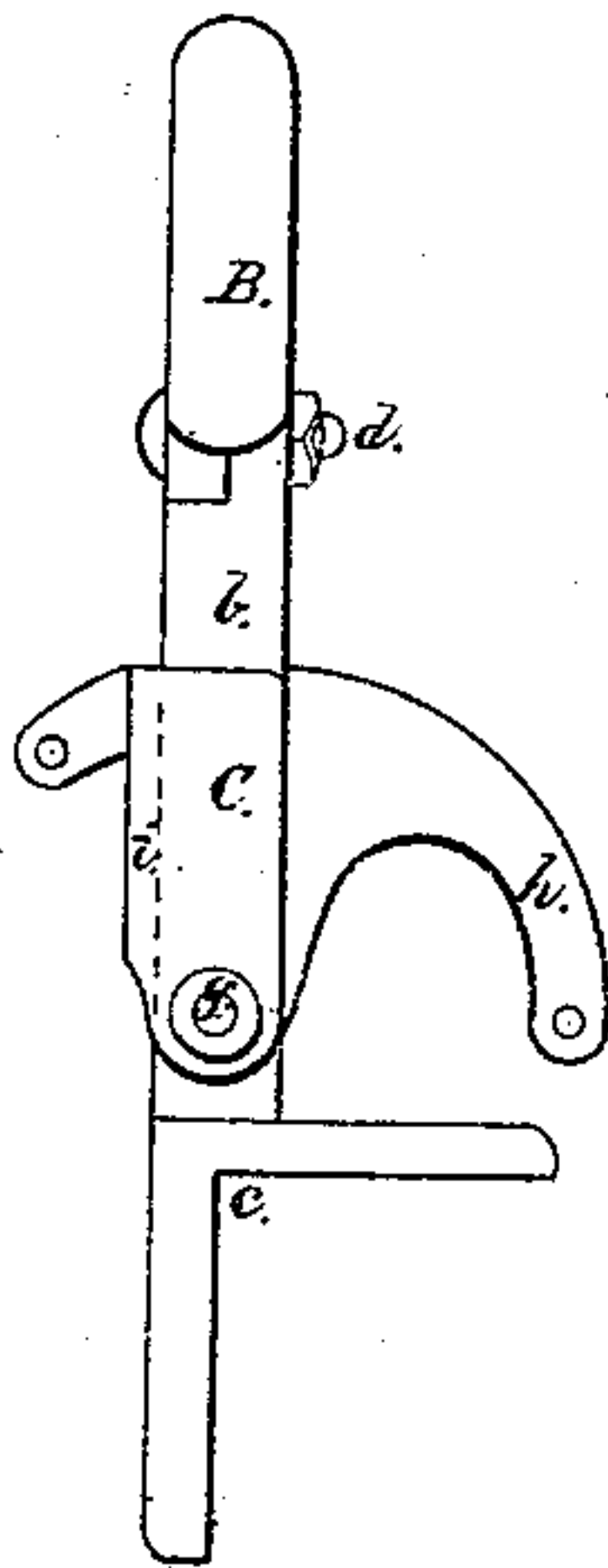
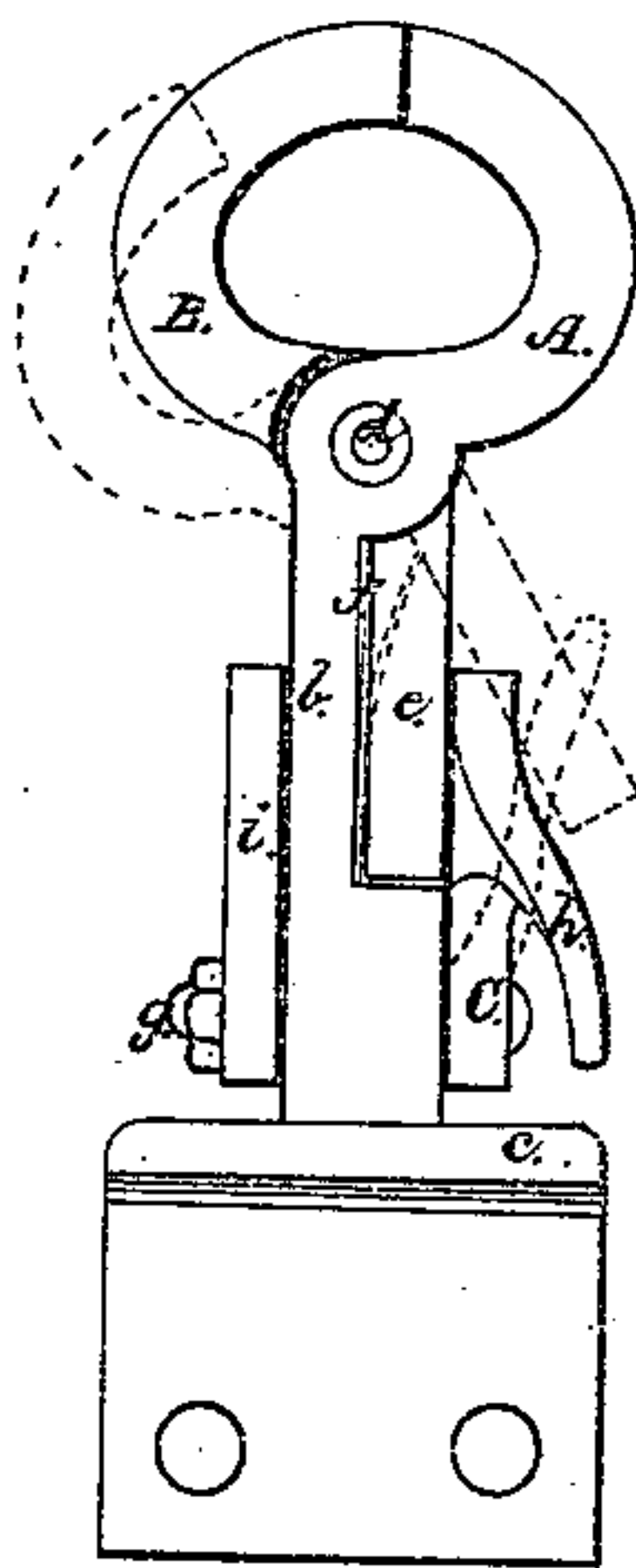


Fig. 4.



Witnesses,
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WILLIAM A. DEVON, OF PORT RICHMOND, NEW YORK.

Letters Patent No. 61,406, dated January 22, 1867.

IMPROVED BOAT-DETACHING TACKLE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, WILLIAM A. DEVON, of Port Richmond, in the county of Richmond, and State of New York, have invented a certain new and useful improvement on Detaching-Hooks applicable to the raising and lowering of ships' boats and other purposes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 represents a longitudinal section of a ship's boat with my improved hook applied thereto.

Figure 2, a transverse section of the same with the hook attached to the davit falls of a ship; and

Figures 3 and 4, views at right angles to each other, on an enlarged scale, of said hook, detached.

Like letters indicate like parts throughout the several figures.

The nature of my invention, in detaching or locking and unlocking hooks, consists in a combination of a cam-shaped lever clasp, pivoted so as to operate in a swinging manner, with a hook formed of two jaws, the one of which is pivoted to the other, and in connection with which is a spring for opening the hook when the clasp above referred to is shot or thrown back, said clasp forming an easy and perfect lock to close and secure the hook in its shut condition.

Referring to the accompanying drawing, A represents the one jaw or portion of the hook, which jaw may be stationary, by its leg, *b*, being secured through a bracket, *c*, or otherwise, to a fixed portion of the boat or other vehicle or object to which it is designed to apply the hook. Pivoted by a bolt, screw, or rivet, *d*, to this stationary jaw is a movable jaw, B, provided with a leg, *e*, said jaws when shut forming a close ring or eye as represented in figs. 2 and 4, but opening, at least the one jaw, when required, as represented by red lines in fig. 4; a spring, *f*, of any suitable kind and arrangement or disposition, serving, when the jaws are unlocked, to throw and keep open the movable jaw. Pivoted also, say to the stationary jaw, as at *g*, is a clasp, C, made with a cam-shaped lever, *h*, at its side adjacent to the leg of the movable jaw, and playing against or across the outside of said leg, while its opposite side is provided with a cheek or face-piece, *i*, that laps over or outside of the leg of the stationary jaw as a fixture, that is, when the clasp is shut to lock the hook. The arm or lever, *h*, is so shaped as that, when the clasp is thrown back, its cam or inclined front portion affords space for the play of the leg *e* of the movable jaw in being opened by the spring *f*, but on swinging forward or closing the clasp, then said cam or inclined front portion, which should be rounded off on its inside face, bears gradually and easily on the leg *e* of the movable jaw to close it, and by its straight or different configuration at its rear end, said lever, *h*, acting in connection with the cheek or face-piece *i*, serves, when the jaws are closed, to effectually and securely keep them so, and so that no weight or lifting strain thrown on the hook will exert any tendency to open the clasp. A hook thus constructed will be found an advantageous and secure arrangement for many purposes, including drop-press attachments, car-couplings, and others. Applied as a locking and unlocking device to ships' boats to facilitate the secure raising and lowering of them with ease and rapidity of action, the hooks at opposite ends of the boat, D, may be opened simultaneously to detach them from the falls by pulling on a rod, rope, or chain, *k*, connected by chains and rods, *l*, or their equivalents, with the rear ends of the clasps, C, which forms a quick, sure, and easy mode of detachment, while to close the hooks again in gear with the falls, it is only necessary to pull, by ropes or chains *m*, on the levers *h* of the clasps, which causes the latter to close and lock the hooks. In some cases the spring *f* may be dispensed with, and the cam-shaped lever *h* be arranged to pass through a slot in the leg of the movable jaw, so as not only to close the hook when the clasp is shot forward, but also, when thrown back, to open it.

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

The combination of the jaws A and B, of the pivoted locking clasp C, with its cam-shaped lever *h*, and cheek or face-piece *i*, for operation on the jaws, substantially as specified.

WILLIAM A. DEVON.

Witnesses:

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