

J. M. Brocke.
Boat Detaching.

N^o 15,473.

Patented Aug. 5, 1856.

Fig. 3.

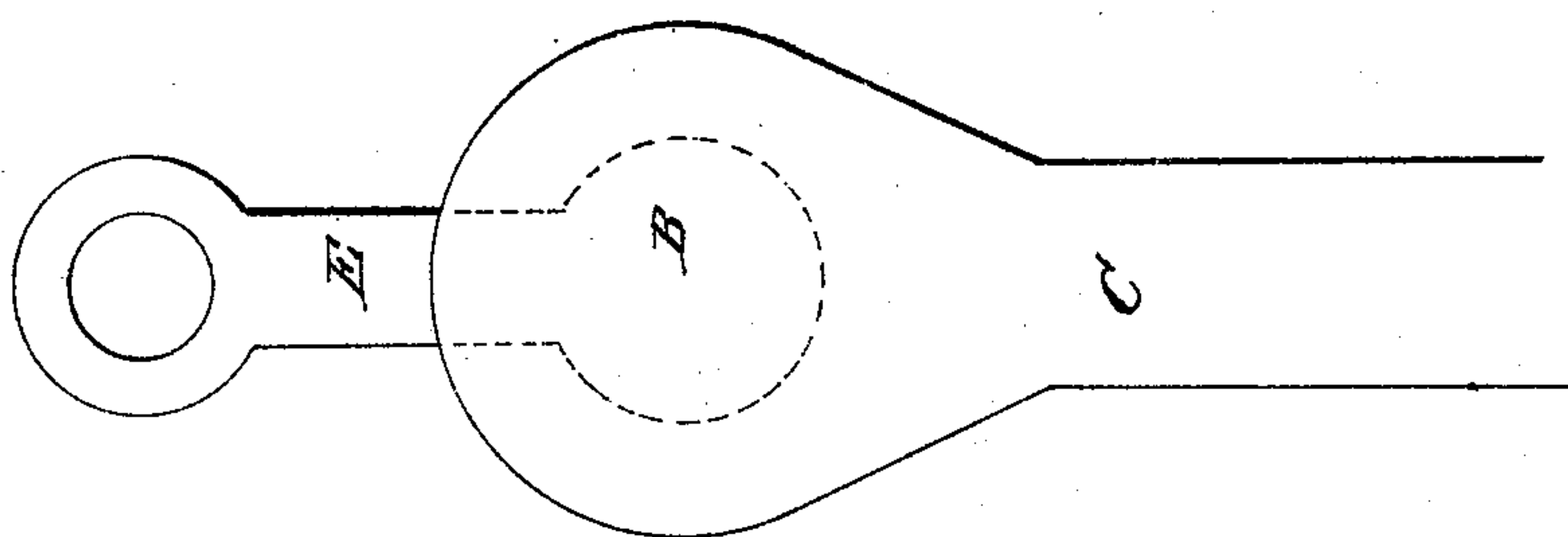


Fig. 2.

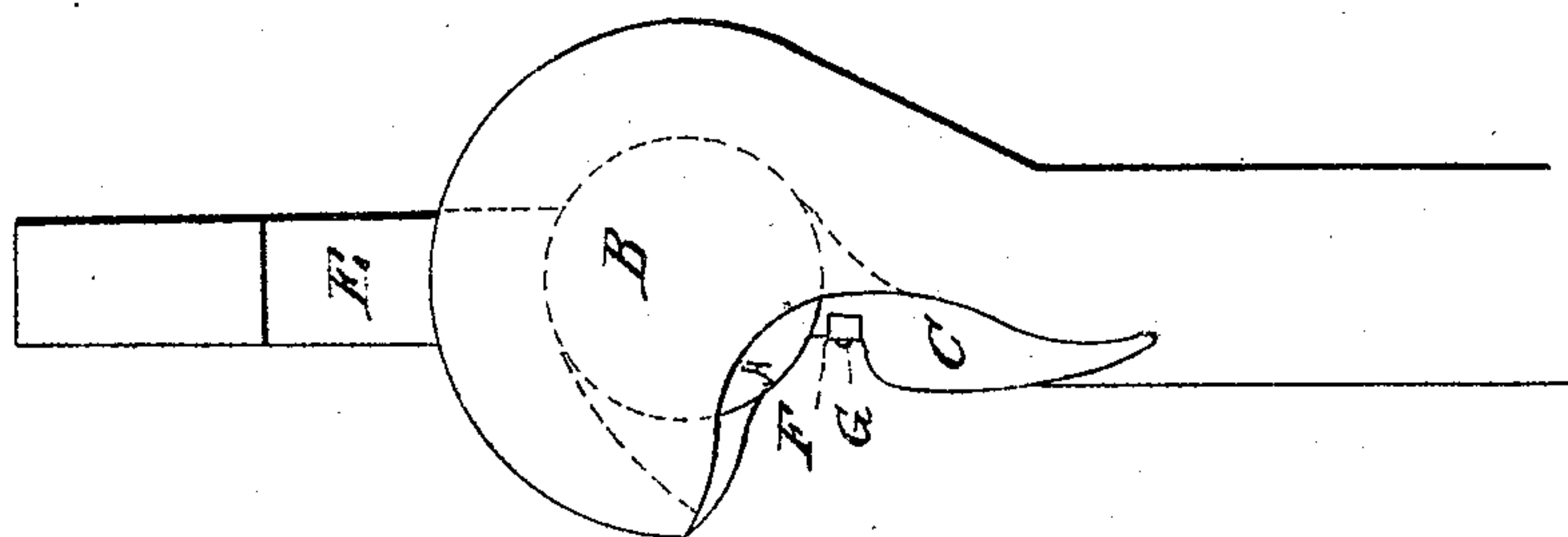
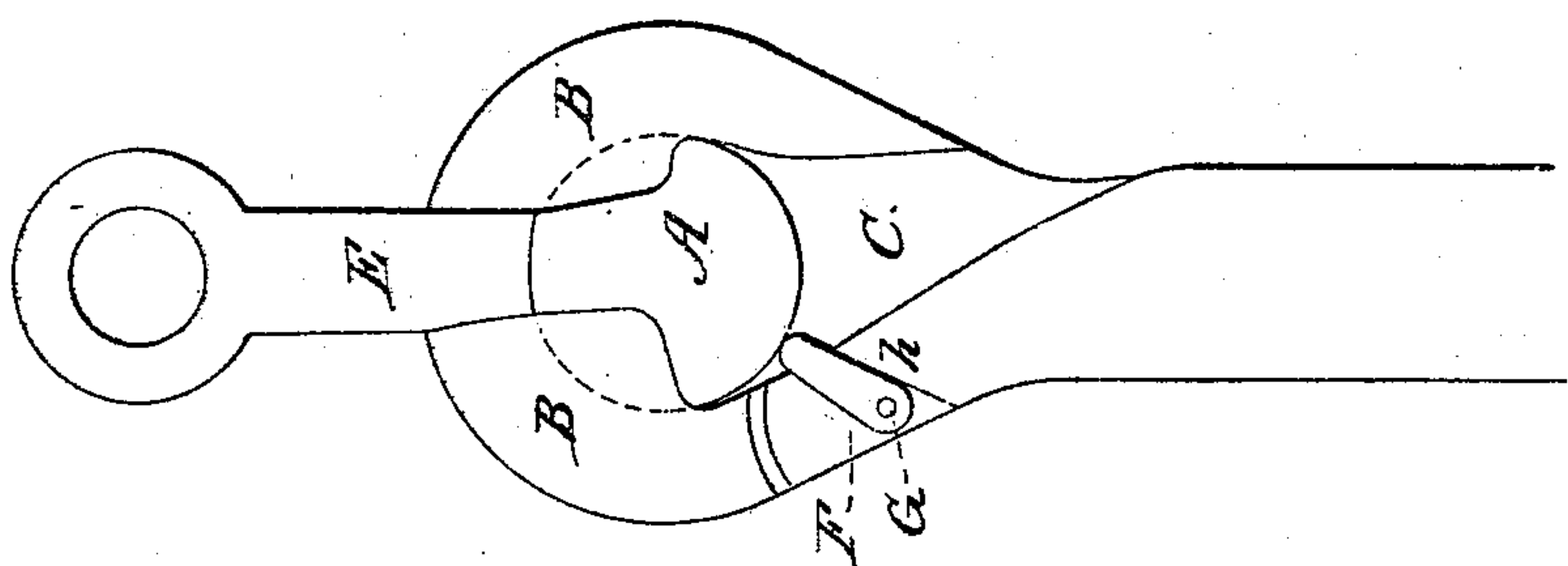


Fig. 1.



UNITED STATES PATENT OFFICE.

JOHN M. BROOKE, OF THE UNITED STATES NAVY.

MEANS FOR ATTACHING AND DETACHING BOATS TO AND FROM THEIR TACKLE.

Specification of Letters Patent No. 15,473, dated August 5, 1856.

To all whom it may concern:

Be it known that I, JOHN M. BROOKE, a lieutenant in the Navy, have invented an Improvement on the Means of Attaching
5 Boats to or of Detaching Them from the Tackles by Which They are Hoisted from or Lowered into the Water; and I do hereby declare that the following is a full and exact description thereof, reference being had
10 to the accompanying drawings, making a part of this specification, in which—

Figure 1, is a front view, Fig. 2, a side view and Fig. 3, a back view. All appropriately lettered.

15 The nature of my improvement consists in a bolt with hollow head (B), forming part of and opening on a curved channel or deflecting surface (C) so that a ball or plummet fitting in the hollow head of the
20 bolt can not descend without being deflected from the axis of the bolt. This bolt is permanently fastened in the boat, and the ball or plummet is fastened to the tackle. A curved slot (D) in the head of the bolt admits the link fastening the ball or plummet
25 to the tackle, so that the support is direct when the boat is suspended. This slot is curved to correspond with the curved channel below. When the boat is supported by
30 the water or axis, the ball descends and is thrown aside; and it may pass up and down close to the curved channel but can not enter it, unless put in by hand, thereby diminishing the danger of a reattachment after
35 lowering in a sea way. The ball may be confined within the aperture, if desired, by a cock or prop (F) turning on a pin (G) and let into the side of the deflecting channel;

but this cock or prop offers no obstacle to the entrance of the ball which will push it
40 out of the way. When used it is kept in place against the shoulder (h) by its own weight and the pressure of the ball; and if the ball should then be turned so that the link comes out of the slot, it can not escape,
45 and the moment the tackle tightens the curved sides of the aperture and slot will guide it back to its proper position.

The difference between this improvement and the "ball and socket hook" consists in
50 the curved channel and curved slot with the cock or prop let in as described.

What I claim as my improvement and desire to secure by Letters Patent, in the application to boats and their hoisting and low-
55 ering apparatus is—

1. A bolt with hollow head, opening on and forming part of a curved channel or deflecting surface; having also a curved slot
60 to correspond with the channel, so that a ball fitting conformably thereto will by the force of gravity, when permitted, follow this curve and be turned aside, and moreover will be prevented from reattaching itself to
65 the bolt if passing up and down before the aperture.

2. I also claim the arrangement of a cock or prop let into the side of the deflecting surface so as to secure the ball in the head
70 of the bolt when required; but offering no obstacle to its entrance.

JOHN M. BROOKE.

Witnesses:

CHAS. WALTER,
CHS. McNAMEE.