

N. B. Adams.
Boat-Detaching Block.
N^o 75234 *Patented Mar. 10, 1868.*

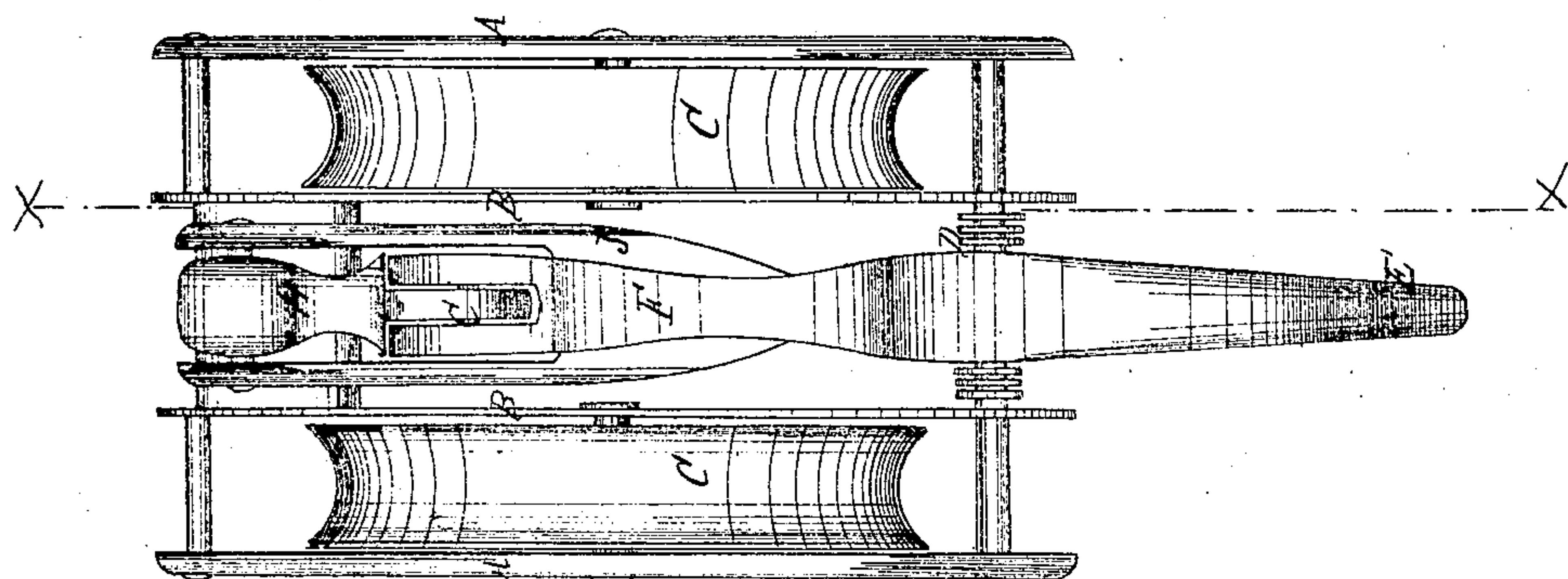


Fig. 2

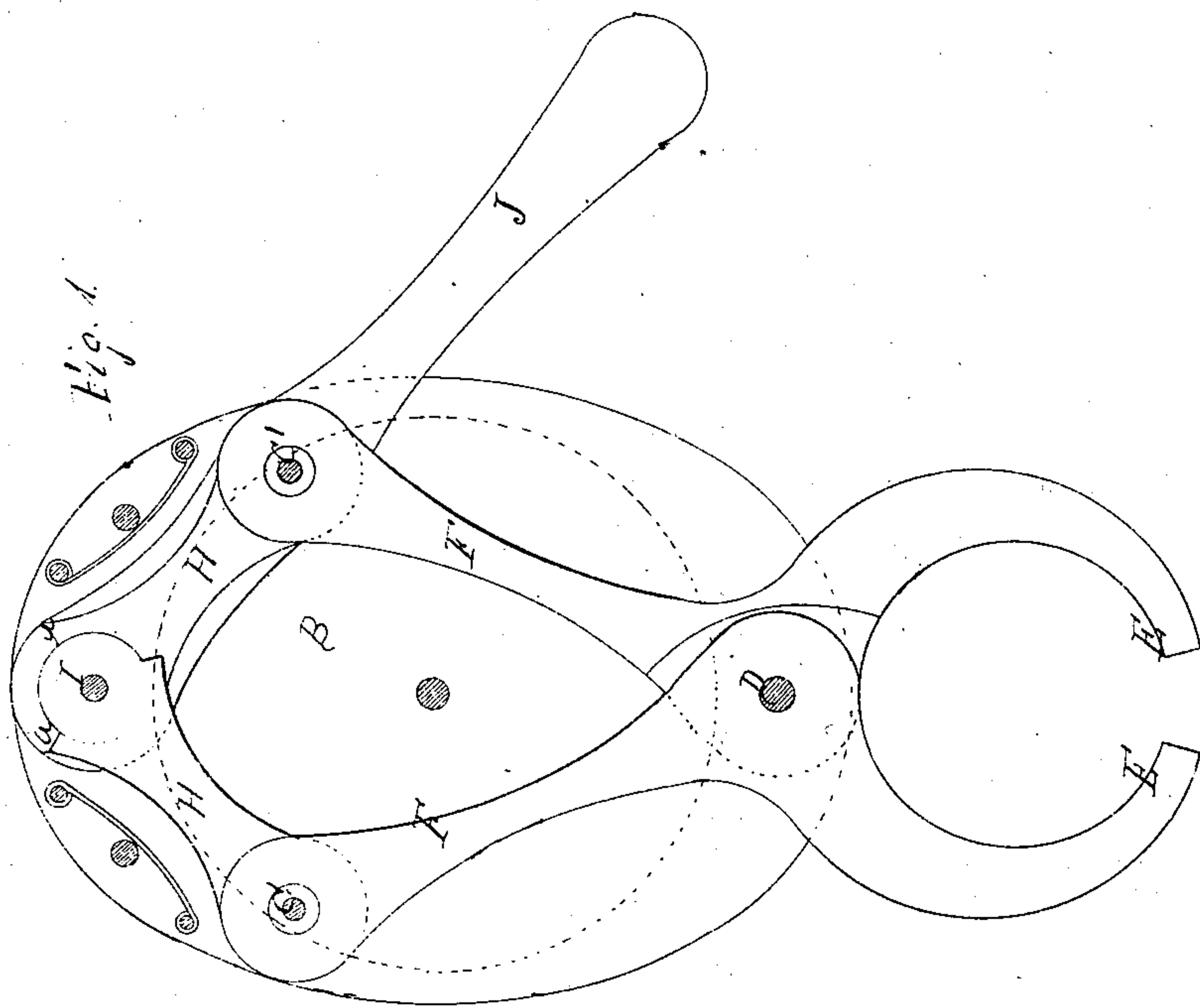


Fig. 1

Witnesses
Geo. H. Strong
J. B. Boone

Inventor
Nelson B. Adams

United States Patent Office

NELSON B. ADAMS, OF SAN FRANCISCO, CALIFORNIA.

Letters Patent No. 75,234, dated March 10, 1868.

IMPROVEMENT IN BOAT-DETACHING BLOCKS.

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, NELSON B. ADAMS, of the city and county of San Francisco, State of California, have invented an Improved Block and Boat-Detaching Apparatus; and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use my said invention or improvements without further invention or experiment.

My invention relates to that class of mechanism known as boat-detaching apparatus; and it consists, first, in an improved device for detaching, and, secondly, in so combining it with the block as to make it applicable to any apparatus in which it is necessary to detach promptly. To more fully explain my invention, reference is made to the accompanying drawings, forming a part of this specification, of which—

Figure 1 is a side sectional view taken through $x x$, fig. 2.

Figure 2 is an elevation, showing an end view of the levers.

Similar letters of reference, in each of the figures, indicate like parts.

A A are the sides of the block, and B B are two plates placed between the sides, at such a distance that the pulleys C C turn between A and B. The detaching-apparatus is placed between the plates B B, and consists of two bent levers hinged together at D. The short arms E E form the jaws, by shutting firmly together. The long arms F F have hinged to them at G G' the two short levers H H, which meet and are hinged at the top at I, thus forming a knee-lever, which, when operated, acts with increasing force to separate the long arms F F, and thus close the jaws E E. The two levers H H have shoulders $a a$, formed at the top of the hinge, so that when the jaws E are closed, and these levers are in a straight or nearly straight line, they can be moved no farther downward, being prevented by the shoulders $a a$. These shoulders are so placed that the levers H H pass a little below a straight line, so that any pressure will tend to hold them more firmly in place. A lever, J, has its fulcrum at G', and is pivoted at I in a line with one of the levers H, and serves to operate the mechanism.

Two blocks being used, one at each end of the boat, the lever J may either be operated at the word of command, by two men, or they may be so connected as to be moved by one, and thus detach both ends of the boat simultaneously.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

In combination with a block, the jaws E E, with the long arms F F, the short levers H H, with shoulders $a a$, forming a knee-joint, the operating-lever J, having its fulcrum at G, and pivoted to the knee-joint I, the whole constructed, combined, and operating as a detaching-apparatus, substantially as and for the purposes herein described.

In witness whereof, I have hereunto set my hand and seal.

NELSON B. ADAMS. [L. s.]

Witnesses:

JNO. L. BOONE,
GEO. H. STRONG.