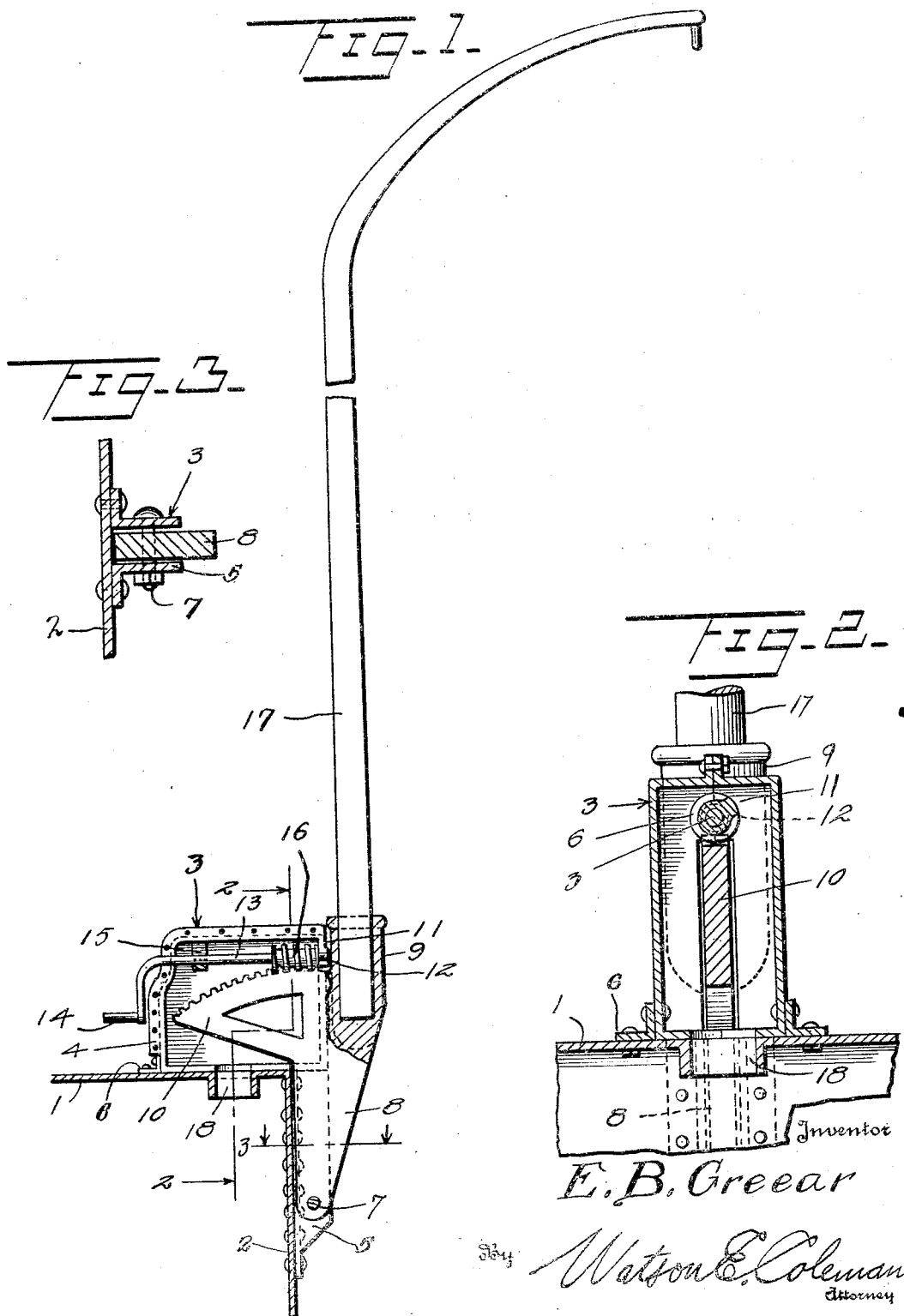


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BOAT DAVIT SUPPORT  
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# UNITED STATES PATENT OFFICE

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## BOAT DAVIT SUPPORT

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This invention relates to improvements in boat davit supports and pertains particularly to a support designed for oscillating the outward swinging or inclining of the davit.

Boat davits are normally mounted in sockets in the deck of a ship so that they may be oscillated about their longitudinal axes to swing the boat outwardly beyond the side of the ship, but such mounting does not ordinarily permit of the tilting or listing outwardly of the davits so as to swing the boat supported thereby a sufficient distance outwardly to prevent it striking the side of the ship in the event that the ship has listed in the direction away from the side where the boats are being lowered.

The primary object of the present invention is to provide a movable davit supporting socket which may be swung outwardly from a vertical to an outwardly inclined position so that the outer ends of the davits mounted in the sockets will be removed such a distance from the side of the ship that the boat supported thereby may be lowered directly into the water without touching the side of the ship even though the ship be badly listed to the side opposite that from which the life boats are being lowered.

Another object of the invention is to provide a boat davit and support therefor which is of relatively simple but strong and durable construction and which may be easily and quickly operated for the outward swinging of the davits.

The invention will be best understood from a consideration of the following detailed description taken in connection with the accompanying drawing forming part of this specification, with the understanding, however, that the invention is not confined to any strict conformity with the showing of the drawing but may be changed or modified so long as such changes or modifications mark no material departure from the salient features of the invention as expressed in the appended claims.

In the drawing:—

Figure 1 is a view partly in section and partly in side elevation of the davit support embodying the present invention;

Figure 2 is a sectional view taken substantially upon the line 2—2 of Figure 1 and showing the parts on an enlarged scale;

Figure 3 is a horizontal sectional view taken substantially upon the line 3—3 of Figure 1.

Referring now more particularly to the drawing wherein like numerals of reference indicate corresponding parts throughout the several views, the numeral 1 indicates a portion of a ship's deck, while the numeral 2 indicates an adjacent portion of the side wall of the ship, the deck and wall portions being in section and conventionally illustrated.

The davit support and shifting mechanism embodying the present invention is indicated as a whole by the numeral 3 and as shown, this comprises a casing or housing 4 which is relatively narrow and has a downwardly extending portion 5 which forms an integral continuation of the walls thereof at one edge, this edge being open from the top of the housing to the lower end of the portion 5.

The housing 4 is mounted in upright position as shown upon the deck 1 with the extended portion 5 directed downwardly against the outer face of the wall 2 of the ship and any suitable means may be employed for securing the casing firmly in position, as for example, the bottom edges of the side walls thereof may have the angle bars 6 secured thereto and fastened by bolts or in any other suitable manner to the deck and side of a ship.

At the lower end of the hollow extension portion 5 of the housing there is formed a bearing 7 in which is mounted one end of an arm 8. This arm normally extends upwardly and is partly enclosed in the portion 5 of the housing and at its upper end it is enlarged to form the socket 9 which projects above the housing 4, and the integral gear segment 10 which projects inwardly into the housing 4.

The forward open edge of the housing 4 has a short downwardly extending wall portion 11 upon the inner face of which is formed a bearing 12 and into this bearing there positions one end of the shaft 13 which extends through the upper part of the housing from the rear edge thereof. At the rear edge of

the housing this shaft 13 extends outwardly and carries a crank 14 by means of which it is rotated when the mechanism is in operation. Within the housing a second bearing 5 which is indicated by the numeral 15, is carried by and between the side walls thereof through which the shaft 13 positions.

The shaft 13 carries a worm 16 which is in threaded connection with the teeth of the gear segment 10 and from this it will be readily apparent that by rotating the shaft 13 in the proper direction the gear segment 10 may be caused to swing outwardly, moving about the pivot or bearing 7 as an axis.

15 The socket 9 receives the davit 17, the construction of which is well known and needs no description.

At 18 there is indicated an opening through the deck of the ship through which may be 20 drained off water which gets into the casing 3 and the bottom of the casing is provided with a suitable corresponding opening in the manner shown.

From the foregoing it will be readily apparent that when the davits of a ship are mounted in supports of the character herein described and the ship is listing badly it will be possible to lower life boats safely from the high side of the ship as well as from the listing 25 side without danger of having the life boats capsize through contact with the side of the ship as so frequently happens where an attempt is made to lower boats from davits which cannot be swung outwardly and, 30 therefore, cannot move the life boats out a sufficient distance beyond the body of a ship, as it will only be necessary for the deck hands to rotate the shaft 13 associated with each davit support and thus cause the davit 35 17 to tilt or lean outwardly beyond the ship's wall.

Having thus described the invention, what is claimed is:—

1. In a boat davit structure, an arm, means 45 for pivotally connecting one end of the same to a ship's side to extend upwardly therealong, a socket at the upper end of and carried by the arm, a davit mounted in the socket, a gear segment integral with the arm 50 at one side to extend inwardly over an adjacent deck, and a crank operated worm mounted for connection with the segment for facilitating the movement of the same and the arm about the pivot of the arm.

2. In a boat davit structure, a housing for mounting on a ship's deck and having a downward extending portion for disposition against the side of the ship, said extension being open on its outer side and said opening 55 extending into the adjacent outer side of the housing, an arm positioned in said housing extension and pivotally attached at its lower end to the housing to swing outwardly therefrom, a socket carried by the arm at its upper 60 end and disposed outside the housing,

a davit in said socket, a gear segment carried by the arm at its upper end and normally located in the housing, and a crank actuated worm mounted in the housing in engagement 70 with the segment to move the latter and the arm out of the housing and the extension thereof through the open sides thereof.

3. In a boat davit structure, an elongated arm of gradually increasing width from one end, a gear segment formed integral with 75 the arm and extending laterally from one edge, a socket designed to receive a boat davit, and forming an integral extension of the arm and adjacent the other edge from said gear segment and further projecting 80 longitudinally of the arm beyond the adjacent segment, means for pivotally mounting the end of the arm remote from the socket upon the side of a ship in a position 85 to have the segment extend inwardly over an adjacent deck surface, when the arm is in vertical position, and threaded means mounted above and having connection with said segment whereby the segment and socket carrying arm may be swung outwardly upon the 90 pivot for the arm for the lowering of the davit.

In testimony whereof I hereunto affix my signature.

EVERETT B. GREAR. 95

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