Title:

Device for ~~R~~raising a rudder stock on a ship

Description

The present invention regards a device, and a method for raising a rudder stock on a ship, as an integrated part of the ships steering engine with the purpose of performing maintenance on the internal wearing parts of the steering engine.

Background of the invention and prior art

The purpose of the invention is to do necessary maintenance work on steering engines, more specifically "rotary vane"- steering engine (hereinafter referred to as steering engine), which are considerably easier thaen current practise. A representative steering engine contains the entire upper radial bearing of the rudder system and rudder radial bearing. A rudder stock on a ship is normally fasted radially at 2, 3 or 4 points and axially at one point, of which the steering engine can be the axial bearing point - also called rudder radial bearing. During maintenance of / or faults on the steering engine it must be feasible to lock the rudder stock both radially and axially, there are available two alternative methods for locking the rudder stock. Method 1, in which the rudder and the rudder stock are secured by chains or cables that normally are fastened to the rudder blade itself; and Method 2, in which the rudder stock is secured by use of equipment mountable directly around the rudder stock during installation of the steering engine at the building yard. Furthermore, there a need in the field to relieve the rudder stock so that it can be replaced.

Of prior art in the field an example is disclosed in NO 302695 B1 that comprises a locking device that may be activated to maintain a rudder stock axially and radially relative to the structure of the ship in connection with replacement or maintenance of a steering engine of a ship.

Other prior arts in the field are GB 1409245 A and JP 58008496 A that discloses other rudder systems compared to the present invention.

The disadvantages with the prior art is that there are no easy solutions to raise the rudder stock for relieving the rudder radial bearing in a steering engine so that it may easily be replaced.