

Redundant electric rudder installation for a submarine, and operation of said installation

Abstract

The present invention relates to an electric rudder installation 10, the rudder installation 10 having at least three rudders 20, each rudder 20 having at least one first electric servomotor 31, the rudder installation 10 having at least one control console 40, a first rudder control system 51 and a first motor controller 61, the control console 40 being designed to input control commands, the control console 40 and the first rudder control system 51 being connected to transmit the control commands, the first rudder control system 51 being designed to process the control commands and actuation commands, the first rudder control system 51 and the first motor controller 61 being connected to transmit the actuation commands, the first motor controller 61 being connected to the first servomotors 31 to position the rudders 20 in accordance with the actuation commands, wherein the rudder installation 10 has at least one second rudder control system 52, the control console 40 and the second rudder control system 52 being connected to transmit the control commands, the second rudder control system 52 being designed to process the control commands and actuation commands, the second rudder control system 52 and the first motor controller 61 being connected to transmit the actuation commands.

- Fig. 1 -