

Abstract

Finned rudder

- 5 Finned rudder with a main rudder pivotable about a vertical axis and a fin joined to the rear edge of the main rudder and driven by the main rudder, to which a pivoting piston is connected, which is connected to a vertical shaft journal connected to the ship hull via a joint bearing and which may be pivoted about the ship's longitudinal axis (X-axis) and the ship's transverse axis (Z-axis), independently of the deflection of the main rudder. The
- 10 pivoting piston is inserted in a horizontal borehole (81) of a coupling housing (8) which has a vertical borehole (82) in which the joint bearing housing the shaft journal is inserted, made up of a spherical bearing with an inner ring (91) with a cylindrical borehole for housing the shaft journal and a spherical segment outer surface and an outer ring (92) with a spherical segment inner surface matching the spherical segment of the outer
- 15 surface of the inner ring (91) and a cylindrical outer surface matching the vertical borehole (82) of the joint housing (8).

FIG 3