

Title (en)
AXIAL THRUST COMPENSATION DEVICE

Title (de)
AXIALSCHUBAUSGLEICHSEINRICHTUNG

Title (fr)
DISPOSITIF DE COMPENSATION DE LA POUSSEE AXIALE

Publication
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Application
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Abstract (en)
[origin: WO0212728A1] The invention relates to an axial thrust compensation device consisting of a balance piston rotating by means of a shaft, comprising a groove which is arranged on the outer circumference of the balance piston, and a ring element which is arranged in said groove. The ring element is arranged in a movable manner in the groove, having low end play during the formation of a gap between the axial front sides thereof and the lateral defining walls lying opposite said front sides. The balance piston is guided in an opening pertaining to a housing. The aim of the invention is to improve the efficiency of the axial thrust compensation device and to reduce leakage. In order to achieve this, the ring element (7) is split by a gap (9), and a pressure difference between the axial front sides of the ring element (7) expands the ring element (7) in a flexible manner and positions it in a sealed manner on the inner wall of the opening.

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