

Title (en)

ROLLING BEARING, IN PARTICULAR RADIAL NEEDLE BEARING HAVING A LABYRINTH SEAL

Title (de)

WÄLZLAGER, INSBESONDERE RADIAL-NADELLAGER MIT EINER LABYRINTHDICHTUNG

Title (fr)

PALIER DE ROULEMENT, EN PARTICULIER PALIER À AIGUILLES À CHARGE RADIALE DOTÉ D'UN JOINT À LABYRINTHE

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Application

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Priority

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Abstract (en)

[origin: WO2011042271A1] The invention relates to a rolling bearing designed as a radial needle bearing (1), which consists of a thin-walled outer needle sleeve (2) having radial rims (3, 4) that are axially inwardly directed on both sides, a plurality of needle bearings (6) rolling on the inner lateral area (5) of the needle sleeve (2) and on the outer lateral area of the shaft to be supported, and a needle cage (7) guiding the bearing needles (6) in the circumferential direction in an evenly spaced manner. To this end, at least on one side, in addition to the needle cage (7), an additional stop disc (8) is inserted into the needle sleeve (2), which disc is provided to delimit the axial movability of the needle cage (7) together with a radial rim (3) or a further stop disc inserted into the needle sleeve (2). Between the one stop disc (8) and the other radial rim (4), a sealing element (9) is arranged, which is provided to seal the radial needle bearing (1). According to the invention, the sealing element (9) is designed as a labyrinth seal, which can be assembled from two individual mutually engaging sealing rings (10, 11) designed as having complimentary profile cross-sections.

IPC 8 full level

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