

Title (en)
AXIAL ANTI-FRICTION BEARING, IN PARTICULAR AXIAL NEEDLE BEARING

Title (de)
AXIALWÄLZLAGER, INSBESONDERE AXIALNADELLAGER

Title (fr)
PALIER À ROULEMENT AXIAL, EN PARTICULIER PALIER À AIGUILLES AXIAL

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Application
EP 11723479 A 20110607

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Abstract (en)
[origin: WO2012016731A1] The invention relates to an axial anti-friction bearing (1), in particular an axial needle bearing, substantially consisting of a first annular bearing plate (2) and a second annular bearing plate (3) which in each case consist of a thin-walled steel sheet and are arranged spaced apart from one another on a common centre axis (AM), and consisting of a multiplicity of rolling bodies (4) which are arranged in a row next to one another, roll between the axial inner sides of both bearing plates (2, 3), which axial inner sides are configured as raceways (5, 6), and are held at uniform spacings from one another by a bearing cage (7). According to the invention, the bearing plates (2, 3) of the axial anti-friction bearing (1) are configured as disc springs which compress in a load-dependent manner and have angularly set raceways (5, 6), and which bearing plates (2, 3) are arranged with respect to one another in such a way that the rolling bodies (4) have a low-friction punctiform contact in the unloaded state of the axial anti-friction bearing (1) and have a load-bearing linear contact with the raceways (5, 6) only in the fully loaded state of the axial anti-friction bearing (1).

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Citation (search report)
See references of WO 2012016731A1

Citation (examination)
• JP H08159150 A 19960618 - NIPPON SEIKO KK
• JP 2006046559 A 20060216 - KOYO SEIKO CO
• US 5433137 A 19950718 - IKEDA HAYATO [JP], et al

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