

Title (en)
ANGULAR BALL BEARING ARRANGEMENT

Title (de)
SCHRÄGKUGELLAGERANORDNUNG

Title (fr)
AGENCEMENT DE ROULEMENT À BILLES ANGULAIRE

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Application
EP 22741763 A 20220711

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Abstract (en)
[origin: WO2023285359A1] The invention relates to an angular contact ball bearing assembly (1) having a first raceway element (2) and a second raceway element (4), wherein: balls (6) are arranged between the raceway elements (2, 4); the balls (6) roll on raceways (8) which are arranged on the raceway elements (2, 4); the cross-section of the angular ball bearing assembly (1) is divided conceptually into four quadrants (I, II, III, IV) by the axis of rotation (AR) of one ball (6) and an axis (As) perpendicular to the axis of rotation (AR) of the ball (6), which quadrants are arranged clockwise; the ball (6) has four contact points (P-I, P-II, P-III, P-IV) with the raceways (8), and each contact point (P-I, P-II, P-III, P-IV) is situated in one of the four quadrants (I, II, III, IV); the raceway (8) of the second raceway element (4) is situated in the first and second quadrants (I, II), and the raceway (8) of the first raceway element (2) is situated in the third and fourth quadrants (III, IV); the midpoint (M-I) of the radius of curvature (R-I) of the raceway (8-I) of the first quadrant (I) is situated in the third quadrant (III); the midpoint (M-II) of the radius of curvature (R-II) of the raceway (8-II) of the second quadrant (II) is situated in the fourth quadrant (IV); the midpoint (M-III) of the radius of curvature (R-III) of the raceway (8-III) of the third quadrant (III) is situated in the first quadrant (I); and the midpoint (M-IV) of the radius of curvature (R-IV) of the raceway (8-IV) of the fourth quadrant (IV) is situated in the second quadrant (II).

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