

Title (en)

INNER-RING-FASTENED ROLLER SLEEVE AND METHOD FOR PRODUCING SAME

Title (de)

INNENRINGBEFESTIGTE ROLLENHÜLSE UND VERFAHREN ZUR HERSTELLUNG DERSELBEN

Title (fr)

MANCHON À ROULEAUX À FIXATION SUR BAGUE INTÉRIEURE ET PROCÉDÉ POUR LE PRODUIRE

Publication

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Application

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Abstract (en)

[origin: WO2022037744A1] The invention relates to an inner-ring-fastened roller sleeve (1), comprising: - an inner ring (2), which is fastened on a shaft or axle; and - a roller-and-cage assembly (3), which is disposed on said inner ring (2) and is formed by a bearing cage (4), which consists of two side rings (5, 6) and a plurality of connecting webs (7), and by a plurality of roller-type rolling elements (8) inserted into said bearing cage, which roller-type rolling elements are retained by the bearing cage (4) at regular spacings in the circumferential direction and roll on an inner raceway (9) formed by the outer lateral surface of the inner ring (2), wherein the roller-and-cage assembly (3) is axially guided by means of two flanges (10, 11), which are provided on the axial sides of the inner ring (2) and extend radially outward. According to the invention, because the inner ring (2) is designed with a flange (11) having a greater outer diameter than the other flange (10) on the inner ring (2) and because said flange (11) is designed with an edge ring (12) bent axially toward the roller-type rolling elements (8), the inner ring (2) can be produced as a finally formed and thermally treated component and an axially slotted plastic cage can be used as the bearing cage (4), one side ring (6) of which plastic cage is radially surrounded by the axially bent edge region (12) of the flange (11) having the greater outer diameter and thus fixes the roller-and-cage assembly (3) in the inner ring (2).

IPC 8 full level

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