

Title (en)
BEARING ASSEMBLY FOR ROTATABLY SUPPORTING A MACHINE ELEMENT AND METHOD FOR FIXING A TAPERED ROLLER BEARING TO A MACHINE ELEMENT

Title (de)
LAGERANORDNUNG ZUR DREHBAREN LAGERUNG EINES MASCHINENTEILS UND VERFAHREN ZUM FIXIEREN EINES KEGELROLLENLAGERS AN EINEM MASCHINENTEIL

Title (fr)
AGENCEMENT DE PALIER DESTINÉ À SUPPORTER UNE PIÈCE DE MACHINE TOURNANTE ET PROCÉDÉ DE FIXATION D'UN PALIER À ROULEAUX CONIQUES SUR UNE PIÈCE DE MACHINE

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Abstract (en)
[origin: WO2010112229A1] The invention relates to a bearing assembly, having a two-rowed tapered roller bearing (1) for rotatably supporting a machine element (3) and having a clamping device (2) for fixing the tapered roller bearing (1) to the machine element (3). The tapered roller bearing (1) has an outer ring (5), the outer diameter of which is at least 1 meter, a first inner ring (7), a second inner ring (9), which is axially disposed next to the first inner ring (7), a set of conically designed first rolling elements (11), which roll between the outer ring (5) and the first inner ring (7), and a set of conically designed second rolling elements (12), which are axially disposed next to the first rolling elements (11) and which roll between the outer ring (5) and the second inner ring (9). The clamping device (2) has a rigid component (18) and an elastically deformable component (19, 23). The rigid component (18) of the clamping device (2) axially stops at the machine element (3). The elastically deformable component (19, 23) of the clamping device (2) is axially clamped and thus axially deformed compared to a relaxed state. The elastically deformable component (19, 23) of the clamping device (2) is connected to the first inner ring (7) of the tapered roller bearing (1), to the second inner ring (9) of the tapered roller bearing (1), to the rigid component (18) of the clamping device (2), or to the machine element (3).

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Citation (search report)
See references of WO 2010112229A1

Citation (examination)
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