

Title (en)

A self-aligning two row thrust roller bearing.

Title (de)

Selbsteinstellendes zweireihiges Axialrollenlager.

Title (fr)

Palier axial à autoréglage à deux rangées de rouleaux.

Publication

EP 0000703 A1 19790221 (EN)

Application

EP 78100340 A 19780710

Priority

SE 7709175 A 19770815

Abstract (en)

[origin: US4209210A] A self-aligning thrust roller bearing comprising a pair of annular members having a common bearing axis and confronting coaxial raceways. The raceways are of arcuate cross-section and a plurality of symmetrical rollers are arranged in the annular space between the raceways in at least two rows. One of the arcuate raceways is a common raceway for the rollers of both rows. The other raceway comprises separate arcuate raceway sections. The axis of the rollers of each row is inclined in the same direction relative to the bearing axis. The angle of inclination of the rollers of each row are different and the mean angle between the bearing axis and the roller axis is between 20 DEG and 90 DEG . The rollers are guided without the aid of any flange engaging the roller ends.

IPC 1-7

F16C 23/08; **F16C 19/38**

IPC 8 full level

F16C 19/30 (2006.01); **F16C 19/38** (2006.01); **F16C 23/08** (2006.01)

CPC (source: EP US)

F16C 19/30 (2013.01 - EP US); **F16C 19/38** (2013.01 - EP US); **F16C 23/086** (2013.01 - EP US)

Citation (search report)

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- [A] US 1548821 A 19250811 - BRONANDER WILHELM B
- [A] US 1645345 A 19271011 - BERNARD OKNER
- [A] DE 1813979 A1 19701119 - TORRINGTON CO
- [A] FR 572167 A 19240602

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CN114483769A; EP0498232A3; WO9221889A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0000703 A1 19790221; **EP 0000703 B1 19810204**; DE 2860391 D1 19810319; IT 1111194 B 19860113; IT 7822259 V0 19780706; IT 7825395 A0 19780706; JP S54112433 A 19790903; JP S559571 B2 19800311; SE 411064 B 19791126; SE 7709175 L 19790216; US 4209210 A 19800624

DOCDB simple family (application)

EP 78100340 A 19780710; DE 2860391 T 19780710; IT 2225978 U 19780706; IT 2539578 A 19780706; JP 9612478 A 19780809; SE 7709175 A 19770815; US 91219778 A 19780605