

Title (en)  
BARREL-SHAPED BEARING

Title (de)  
TONNENLAGER

Title (fr)  
ROULEMENT A GALETS-TONNEAUX

Publication  
**EP 1565664 A2 20050824 (DE)**

Application  
**EP 03812127 A 20031121**

Priority  
• DE 0303868 W 20031121  
• DE 10255992 A 20021130

Abstract (en)  
[origin: WO2004051099A2] The invention relates to a barrel-shaped bearing which comprises an external ring and an internal ring and at least one row of barrel-shaped rolling bodies arranged therebetween. The inventive bearing also comprises a cage in the form of a disc which turns together with said rolling bodies, meshes the peripheral grooves thereof and is provided with cavities whose number corresponds to the number of the rolling bodies of one row arranged on the external periphery thereof. The total rolling surface of the internal ring is embodied in such a way that the cross section thereof is concave along the entire axial length of the rolling body. The smallest distance between two sides of the cavity of the disc-shaped cage in the area of the external periphery thereof is less than the diameter of the rolling body in the area of the peripheral groove thereof.

IPC 1-7  
**F16C 33/36**

IPC 8 full level  
**F16C 19/36** (2006.01); **F16C 23/08** (2006.01); **F16C 33/36** (2006.01); **F16C 33/46** (2006.01); **F16C 33/52** (2006.01); **F16C 33/54** (2006.01)

CPC (source: EP US)  
**F16C 19/26** (2013.01 - EP US); **F16C 23/086** (2013.01 - EP US); **F16C 33/363** (2013.01 - EP US); **F16C 33/497** (2013.01 - EP US);  
**F16C 33/52** (2013.01 - EP US); **F16C 33/543** (2013.01 - EP US)

Citation (search report)  
See references of WO 2004051099A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**DE 10255992 A1 20040609**; EP 1565664 A2 20050824; JP 2006508312 A 20060309; US 2006165333 A1 20060727; US 7338213 B2 20080304;  
WO 2004051099 A2 20040617; WO 2004051099 A3 20040916

DOCDB simple family (application)  
**DE 10255992 A 20021130**; DE 0303868 W 20031121; EP 03812127 A 20031121; JP 2004556010 A 20031121; US 53319505 A 20050609