

Title (en)

Method and apparatus for reducing the run-out

Title (de)

Verfahren und vorrichtung zur reduzierung von unrundheit

Title (fr)

Procédé et appareil permettant de réduire les défauts d'ovalisation

Publication

**EP 1648641 A2 20060426 (EN)**

Application

**EP 04766224 A 20040714**

Priority

- EP 2004051494 W 20040714
- IT BO20030449 A 20030729

Abstract (en)

[origin: WO2005011903A2] The invention concerns a method and an apparatus for preparing, for the purposes of machining in order to reduce the run-out, the flange of the hub and bearing assembly designed to support the braking disc and the wheel of a motor vehicle, the assembly being of the type in which the hub (4) passes through the inner races (3, 3') of the bearing, the outer race (1) of which is without flange since it is intended to be pressfitted into a support housing of the vehicle suspension. The method and the apparatus in question are such that, when the assembly (P) is arranged on the support chuck (M) in order to machine with a machine tool the said flange (304) of the hub, using any method of the known type, the outer race (1) of the assembly is clamped by means associated with the said chuck, so as to be subjected to a radial compressive stress of a type and magnitude substantially equal to that to which the said race will be subjected when mounted in the said support housing of the suspension, in order to eliminate all the play initially present in the assembly, so that the latter may be machined for the purposes of run-out, substantially under the same conditions which exist during the final working stage.

IPC 1-7

**B23B 31/20**; **B23B 31/30**; **B23B 5/02**

IPC 8 full level

**B23B 5/02** (2006.01); **B23B 31/20** (2006.01); **B23B 31/30** (2006.01)

CPC (source: EP)

**B23B 5/02** (2013.01); **B23B 31/204** (2013.01); **B23B 2231/2091** (2013.01)

Citation (search report)

See references of WO 2005011903A2

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 PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2005011903 A2 20050210**; **WO 2005011903 A3 20050609**; EP 1648641 A2 20060426; IT BO20030449 A1 20050130

DOCDB simple family (application)

**EP 2004051494 W 20040714**; EP 04766224 A 20040714; IT BO20030449 A 20030729