

Title (en)

PROCESS OF AND DEVICE FOR FINISHING RINGS, ESPECIALLY RACE RINGS FOR ROLLING BEARINGS

Publication

EP 0482343 A3 19920826 (DE)

Application

EP 91115615 A 19910914

Priority

DE 4033727 A 19901024

Abstract (en)

[origin: EP0482343A2] Process of finish-grinding rings on the outer surface or inner surface, especially for finish-grinding race rings of rolling bearings. A ring to be machined is accommodated by a work fixture with centring via a hydraulic centring means and is driven in a rotating manner by a driver. The ring surface to be machined is measured during a grinding operation. The grinding operation is regulated and/or controlled in accordance with the measured values from the measurement. A contactless measurement is carried out with at least two identical measuring heads from which a hydraulic measuring means corresponding to the centring means emerges from in each case at least one nozzle opening. The measuring heads are distributed over the periphery of the ring surface to be machined in an equidistant manner so as to provide compensation of the measuring force. The hydraulic measuring means is passed free of open jet into the measuring-means and centring-means layer which is carried along by the ring surface to be machined and which is formed between the measuring head and the ring surface. A device for carrying out the process is also specified. <IMAGE>

IPC 1-7

B24B 19/06; **B24B 49/08**

IPC 8 full level

B24B 49/00 (2012.01); **B24B 19/06** (2006.01); **B24B 33/06** (2006.01); **B24B 49/08** (2006.01)

CPC (source: EP US)

B24B 19/06 (2013.01 - EP US); **B24B 33/06** (2013.01 - EP US); **B24B 49/08** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

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DE 4033727 C1 19920220; CS 322291 A3 19920513; CZ 279086 B6 19941215; DE 9017792 U1 19920116; EP 0482343 A2 19920429; EP 0482343 A3 19920826; EP 0482343 B1 19940831; JP 2530958 B2 19960904; JP H05131352 A 19930528; RU 2076034 C1 19970327; US 5679061 A 19971021

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