Title (en)

Method and device for precision rolling of rotationally symmetric workpieces

Title (de)

Verfahren und Vorrichtung zum Präzisionsrollen von rotationssymmetrischen Bauteilen

Title (fr)

Procédé et laminoir pour le laminage de précision des pièces à symétrie de rotation

Publication

EP 1661638 A3 20061122 (DE)

Application

EP 05025308 A 20051119

Priority

DE 102004056921 A 20041125

Abstract (en)

[origin: EP1661638A2] A mechanical or optical measuring unit like mechanical tracer or camera determines the actual diameter of the component (3) held by a support (6) between two rolling heads (4,5). An evaluating unit compares the actual diameter with the desired finishing diameter to obtain an adjustment value. A control unit adjusts the distance between the rolling heads using the adjustment value. An independent claim is also included for method of precision rolling of a surface area of a rotationally symmetrical component.

IPC 8 full level

B21H 1/00 (2006.01); **B21H 3/00** (2006.01); **B21H 5/00** (2006.01)

CPC (source: EP US)

B21H 1/00 (2013.01 - EP US); **B21H 3/00** (2013.01 - EP US); **B21H 5/00** (2013.01 - EP US); B21H 3/02 (2013.01 - EP US); B21H 3/06 (2013.01 - EP US); B21H 5/022 (2013.01 - EP US); B21H 9/02 (2013.01 - EP US)

Citation (search report)

- [DX] DE 3110433 A1 19830217 - DEUTSCHE IND ANLAGEN [DE]
- [A] WO 02078874 A1 20021010 - SUNDRAM FASTENERS LTD [IN], et al
- [DA] DD 288787 A5 19910411 - FER DES SCHWERMASCHINEN UND AN [DE]
- [A] US 2003226386 A1 20031211 - LADOUSSE CLAUDE [FR], et al

Cited by

DE102018008108A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1661638 A2 20060531; **EP 1661638 A3 20061122**; **EP 1661638 B1 20071121**; DE 102004056921 A1 20060601; DE 502005002034 D1 20080103; ES 2296049 T3 20080416; US 2006107717 A1 20060525; US 7353676 B2 20080408

DOCDB simple family (application)

EP 05025308 A 20051119; DE 102004056921 A 20041125; DE 502005002034 T 20051119; ES 05025308 T 20051119; US 28445405 A 20051121