Title (en)

Polishing method for a workpiece and polishing tool used for the polishing method

Title (de)

Polierverfahren für ein Werkstück und für das Polierverfahren verwendetes Polierwerkzeug

Title (fr)

Procédé de polissage d'une pièce et outil de polissage utilisé pour le procédé de polissage

Publication

EP 2283968 A3 20131127 (EN)

Application

EP 10171593 A 20100802

Priority

JP 2009181085 A 20090803

Abstract (en)

[origin: EP2283968A2] Provided is a polishing tool capable of forming a high-quality surface of a workpiece in a short period of time. The polishing tool (10) comprises a rotation shaft (1) arranged parallel to a feed direction (S) of the polishing tool relative to a workpiece (W) and at least two polishing bodies (7,8). The first polishing body (8) includes a foamed resin such as a foamed polyurethane resin, and has an outer peripheral surface (8a) having a porosity higher than the porosity of the second polishing body (7). The second polishing body (7) comprises a non-foamed resin such as a non-foamed polyurethane resin being a material more rigid than the material used for the first polishing body (8). During polishing, the first polishing body (8) removes material from the surface (Wa) of the workpiece (W), and the second polishing body (7) smoothes an unevenness resulting from the material removal with the first polishing body (8).

IPC 8 full level

B24D 5/06 (2006.01); **B24B 27/00** (2006.01); **B24B 41/00** (2006.01); **B24D 5/10** (2006.01); **B24D 13/02** (2006.01); **B24D 13/20** (2006.01)

CPC (source: EP US)

B24B 27/0076 (2013.01 - EP US); **B24B 41/002** (2013.01 - EP US); **B24D 5/066** (2013.01 - EP US); **B24D 5/10** (2013.01 - EP US); **B24D 13/02** (2013.01 - EP US); **B24D 13/20** (2013.01 - EP US)

Citation (search report)

- [XYI] DE 2331646 A1 19740228 - EVERTZ EGON
- [YD] JP H1190806 A 19990406 - RICOH KK
- [Y] GB 2069893 A 19810903 - BRAASCH G
- [Y] GB 523879 A 19400724 - JAMES HENRY FLETCHER, et al

Cited by

DE202013002062U1; WO2022028643A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

EP 2283968 A2 20110216; **EP 2283968 A3 20131127**; JP 2011051089 A 20110317; JP 5780719 B2 20150916; US 2011028074 A1 20110203

DOCDB simple family (application)

EP 10171593 A 20100802; JP 2010174549 A 20100803; US 84514910 A 20100728