

Title (en)  
Diamond form dressing roller and manufacturing method

Title (de)  
Diamant-Formabrichtrolle und Verfahren zur Herstellung

Title (fr)  
Rouleau de dressage diamanté et procédé de fabrication

Publication  
**EP 1312446 A2 20030521 (DE)**

Application  
**EP 02010000 A 20020504**

Priority  
DE 10156661 A 20011117

Abstract (en)  
The roller (10) to dress diamond grinding disks, in a ceramic or metal or synthetic resin bonding, has a metal carrier body (12). It has a cladding (14) in at least one layer, and the separate diamond fragments are of sizes within very tight tolerances, arranged on a plane at right angles to the rotary axis of the roller. The diamonds are laid out in a pattern so that, as the grinding disk wears, the grinding action remains constant. The diamonds are laid in their patterns with an adhesive layer, on a ring-shaped underlay which can be melted away. The bonding powder is added, and the material is compressed while cold, to be sintered. The shaped ring cladding is ground around the circumference.

Abstract (de)  
Formabrichtrolle (10) mit einem Belag aus Diamantkörnern (14) in einer geeigneten Bindung zum Abrichten von Diamantschleifscheiben in keramischer, bakelitischer oder metallischer Bindung, wobei der Belag (14) aus mindestens einer Schicht besteht, und einzelne Diamantkörner (16) in engklassierter Größe in einer Ebene senkrecht zur Drehachse der Formabrichtrolle (10) nach einem vorgegebenen Setzschema so angeordnet sind, daß die Umflächengeometrie der Abrichtrolle im Verschleißfortschritt annähernd konstant bleibt. <IMAGE>

IPC 1-7  
**B24B 53/14**; **B24D 18/00**

IPC 8 full level  
**B24B 53/14** (2006.01); **B24D 18/00** (2006.01)

CPC (source: EP)  
**B24B 53/14** (2013.01); **B24D 18/00** (2013.01)

Cited by  
DE102013108918A1; JP2007320015A; US9956665B2

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**EP 1312446 A2 20030521**; **EP 1312446 A3 20040714**; **EP 1312446 B1 20081119**; AT E414588 T1 20081215; DE 10156661 A1 20030605; DE 50213024 D1 20090102; ES 2317965 T3 20090501

DOCDB simple family (application)  
**EP 02010000 A 20020504**; AT 02010000 T 20020504; DE 10156661 A 20011117; DE 50213024 T 20020504; ES 02010000 T 20020504