

Title (en)
GRINDING ROLL FOR PRESSURE GRINDING GRANULAR MATERIAL

Title (de)
MAHLWALZE FÜR DIE DRUCKZERKLEINERUNG KÖRNIGEN GUTES

Title (fr)
CYLINDRE DE BROYAGE POUR LE BROYAGE PAR PRESSION D'UN MATERIAU EN GRAINS

Publication
EP 1684907 A1 20060802 (DE)

Application
EP 04803217 A 20041122

Priority
• EP 2004013234 W 20041122
• DE 10354679 A 20031122

Abstract (en)
[origin: WO2005049212A1] The aim of the invention is to provide grinding rolls in particular for high-pressure roller mills or rolling presses for pressure grinding a granular material not only with a wear-resistant coating but also with a face armour plating in the area of the roller annular edge, which has a long service life due to the high wear resistance thereof and whose production and repair are, in general, relatively simple and inexpensive. For this purpose, the inventive face armour plating consists of a plurality of prefabricated hard bodies (12) which are circularly arranged side by side in such a way that the circular face edge of the roller is formed, said hard bodies (12) are disposed on said circular face edge of the roller in an annular circular shoulder (11) of a roll shell (10) such that said hard bodies (12) are placed axially and radially against said circular shoulder (11) of the roll shell (10) and are movably assembled with the roll shell.

IPC 8 full level
B02C 4/30 (2006.01)

CPC (source: EP US)
B02C 4/30 (2013.01 - EP US); **B02C 4/305** (2013.01 - EP US)

Citation (search report)
See references of WO 2005049212A1

Cited by
DE102012102192B4; WO2013135540A1; CN104284729A; DE102012102192A1; WO2013135425A1; DE102012102199A1; EP3088085A1; DE102015207927A1; EP2825316B1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005049212 A1 20050602; AT E418388 T1 20090115; AU 2004291333 A1 20050602; AU 2004291333 B2 20090910; BR PI0416203 A 20061226; CA 2546556 A1 20050602; CA 2546556 C 20110405; CN 100457276 C 20090204; CN 1894044 A 20070110; DE 10354679 A1 20050630; DE 502004008746 D1 20090205; DK 1684907 T3 20090427; EP 1684907 A1 20060802; EP 1684907 B1 20081224; JP 2007511358 A 20070510; MX PA06005646 A 20061214; RU 2006122267 A 20071227; RU 2358806 C2 20090620; US 2007215733 A1 20070920; US 7497396 B2 20090303; ZA 200603907 B 20070829

DOCDB simple family (application)
EP 2004013234 W 20041122; AT 04803217 T 20041122; AU 2004291333 A 20041122; BR PI0416203 A 20041122; CA 2546556 A 20041122; CN 200480034485 A 20041122; DE 10354679 A 20031122; DE 502004008746 T 20041122; DK 04803217 T 20041122; EP 04803217 A 20041122; JP 2006540357 A 20041122; MX PA06005646 A 20041122; RU 2006122267 A 20041122; US 57948204 A 20041122; ZA 200603907 A 20060516