

Title (en)

METHOD FOR PRODUCING PANELS RIBBED ON ONE OR BOTH SIDES

Title (de)

VERFAHREN ZUR HERSTELLUNG EIN- ODER BEIDSEITIG GERIPPTER SCHEIBEN

Title (fr)

PROCÉDÉ DE FABRICATION DE PLAQUES ONDULÉES D'UN CÔTÉ OU DES DEUX CÔTÉS

Publication

EP 2043796 B1 20100421 (DE)

Application

EP 07817406 A 20070723

Priority

- DE 2007001316 W 20070723
- DE 102006034503 A 20060726

Abstract (en)

[origin: US2009291766A1] Method for the production of washers ribbed on one or both sides, wherein the rib profile either is achieved by rolling the raw material of the washers with the washers only after the rolling of the rib profile are punched out or by feeding the already punched out washers in the correct position to a pair of rolls or roll segments, respectively, with the rib structure being shaped by said tools.

IPC 8 full level

B21D 13/04 (2006.01); **B21B 1/00** (2006.01); **B21D 53/22** (2006.01); **B31F 1/07** (2006.01)

CPC (source: EP KR US)

B21H 1/02 (2013.01 - EP KR US)

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 MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2009291766 A1 20091126; AT E464959 T1 20100515; AU 2007278631 A1 20080131; BR PI0714570 A2 20130521; CA 2657807 A1 20080131; CN 101495250 A 20090729; DE 102006034503 A1 20080131; DE 502007003528 D1 20100602; DK 2043796 T3 20100712; EP 2043796 A1 20090408; EP 2043796 B1 20100421; ES 2343285 T3 20100727; JP 2009544901 A 20091217; KR 20090033254 A 20090401; MX 2009000906 A 20090414; PL 2043796 T3 20100930; PT 2043796 E 20100709; WO 2008011871 A1 20080131

DOCDB simple family (application)

US 30750807 A 20070723; AT 07817406 T 20070723; AU 2007278631 A 20070723; BR PI0714570 A 20070723; CA 2657807 A 20070723; CN 200780027777 A 20070723; DE 102006034503 A 20060726; DE 2007001316 W 20070723; DE 502007003528 T 20070723; DK 07817406 T 20070723; EP 07817406 A 20070723; ES 07817406 T 20070723; JP 2009521104 A 20070723; KR 20097001666 A 20090123; MX 2009000906 A 20070723; PL 07817406 T 20070723; PT 07817406 T 20070723