

Title (en)
DOCTOR BLADE DOSING SYSTEM

Title (de)
RAKEL-DOSIERSYSTEM

Title (fr)
SYSTEME DE DOSAGE A RACLE

Publication
EP 1485209 B1 20050803 (DE)

Application
EP 03720149 A 20030307

Priority
• DE 0300738 W 20030307
• DE 10211302 A 20020313

Abstract (en)
[origin: WO03078077A1] Doctor blade dosing systems for devices used for coating material webs (1), particularly paper or paperboard webs, exist that have a doctor blade rod (3), which serves as a dosing element while being held inside a slot of a doctor blade bed (4) that, in turn, is mounted in a support (6) that can be fastened inside the frame of the system. According to the invention, the doctor blade rod (3) has a diameter of less than 25 mm. The doctor blade bed (4) is inserted in removable manner into a slot (18) of the support (6) situated on the face thereof. The ratio of the cross-sectional area (measured in mm<2>) of the doctor blade (4) to the diameter (measured in mm) of the doctor blade rod (3) is less than 60 mm, preferably less than 30 mm. The support (6) is made of a plastic material and is shaped like a clamp having at least one rearward extending clamp limb (13, 14) and one joint location (15), whereby the holding slot (18) that accommodates the doctor blade bed (4) forms the clamp mouth. A tightening tube (16) that presses the slot walls of the holding slot (18) toward one another is placed on a clamp limb (13).

IPC 1-7
B05C 11/02; **D21H 25/12**

IPC 8 full level
B05C 11/04 (2006.01); **B05C 11/02** (2006.01); **D21H 25/12** (2006.01)

CPC (source: EP KR US)
B05C 11/02 (2013.01 - KR); **B05C 11/025** (2013.01 - EP US); **D21H 25/12** (2013.01 - EP US)

Cited by
DE102009026823A1; DE102009026823B4; EP2103358A1; US10465342B2; EP2808092A1; US8539904B2; WO2010142513A1;
DE102009061033A1; US9869061B2; DE102009061033B4; EP2712960A1; US9205450B2; DE202018101092U1

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

DOCDB simple family (publication)
WO 03078077 A1 20030925; AT E301006 T1 20050815; AU 2003223848 A1 20030929; CN 1325175 C 20070711; CN 1524018 A 20040825;
DE 10390987 D2 20050127; DE 50300916 D1 20050908; EP 1485209 A1 20041215; EP 1485209 B1 20050803; JP 2005519753 A 20050707;
JP 4376633 B2 20091202; KR 100977822 B1 20100825; KR 20050014784 A 20050207; US 2005039676 A1 20050224;
US 6911085 B2 20050628

DOCDB simple family (application)
DE 0300738 W 20030307; AT 03720149 T 20030307; AU 2003223848 A 20030307; CN 03800613 A 20030307; DE 10390987 T 20030307;
DE 50300916 T 20030307; EP 03720149 A 20030307; JP 2003576121 A 20030307; KR 20047000731 A 20030307; US 48927104 A 20041015