Title (en)

DEVICE AND METHOD FOR GLUING FIBERS

Title (de)

VORRICHTUNG UND VERFAHREN ZUM BELEIMEN VON FASERN

Title (fr)

DISPOSITIF ET PROCÉDÉ D'ENCOLLAGE DE FIBRES

Publication

EP 2714349 A1 20140409 (DE)

Application

EP 12724953 A 20120525

Priority

- DE 102011103326 A 20110527
- EP 2012059833 W 20120525

Abstract (en)

[origin: CA2837397A1] A device for gluing fibers or similar particles, in particular for the production of wood material panels, for example fiber panels, having a blowline (3) through which the fibers to be glued are transported, wherein there are connected to the blowline a plurality of nozzles (4) which issue into the blowline and by means of which the fibers transported through the blowline can be sprayed with glue, wherein the nozzles (4) are formed as multiple-substance nozzles, for example two-substance nozzles for the purpose of steam atomization, to which nozzles in each case at least one glue feed line (5) and one steam feed line (6) are connected, characterized in that in each case one glue valve (7) and one throughflow measurement device (8) are integrated into the glue feed lines (5), and in that the glue valves (7) and the throughflow measurement devices (8) are connected to at least one control and/or regulating device, such that the throughflow rate for each glue feed line (5) can be separately controlled or regulated by means of the glue valves (7).

IPC 8 full level

B27N 1/02 (2006.01)

CPC (source: EP KR US)

B05B 7/02 (2013.01 - KR); **B27K 5/00** (2013.01 - US); **B27N 1/02** (2013.01 - KR); **B27N 1/0254** (2013.01 - EP US); **B27N 1/0263** (2013.01 - EP US); **B27N 1/029** (2013.01 - EP US)

Citation (search report)

See references of WO 2012163828A1

Citation (third parties)

Third party :

- WO 2009116877 A1 20090924 - MDF TECH LTD [NZ], et al
- MATS SUNDIN: "MASTER'S THESIS 2007:053 CIV DESIGN OF BLOW LINE RESIN INJECTOR FOR MDF PRODUCTION MASTER OF SCIENCE PROGRAMME MECHANICAL ENGINEERING", 5 February 2007 (2007-02-05), XP055178931, Retrieved from the Internet <URL:HTTPS://PURE.LTU.SE/WS/FILES/31029096/LTU-EX-07053-SE.PDF>
- CHAPMAN K. M.: "THESIS: A STUDY OF TWO ASPECTS MEDIUM DENSITY FIBREBOARD MANUFACTURE", March 2004 (2004-03-01), UNIVERSITY OF CANTERBURY, pages FP,83 - 92, XP055178935, Retrieved from the Internet <URL:HTTP://IR.CANTERBURY.AC.NZ/BITSTREAM/10092/7188/1/CHAPMAN_THESIS.PDF>

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 RS SE SI SK SM TR

DOCDB simple family (publication)

DE 102011103326 A1 20121129; **DE 102011103326 B4 20140807**; AR 086561 A1 20140108; AU 2012264913 A1 20131212; AU 2012264913 B2 20170216; BR 112013030337 A2 20161129; BR 112013030337 B1 20210309; CA 2837397 A1 20121206; CA 2837397 C 20170411; CL 2013003375 A1 20140523; CN 102990760 A 20130327; CN 102990760 B 20160316; CN 202826002 U 20130327; CO 6831980 A2 20140110; DE 202012012827 U1 20140226; EP 2714349 A1 20140409; EP 2714349 B1 20160831; ES 2605810 T3 20170316; HU E031134 T2 20170728; KR 101547050 B1 20150824; KR 20140032418 A 20140314; LT 2714349 T 20170125; MX 2013013559 A 20140501; MX 351825 B 20171010; PL 2714349 T3 20170531; PT 2714349 T 20161212; RU 2013157335 A 20150710; RU 2559440 C2 20150810; SI 2714349 T1 20170331; UA 108316 C2 20150410; US 2014106069 A1 20140417; US 9254581 B2 20160209; WO 2012163828 A1 20121206; ZA 201308889 B 20150225

DOCDB simple family (application)

DE 102011103326 A 20110527; AR P120101850 A 20120524; AU 2012264913 A 20120525; BR 112013030337 A 20120525; CA 2837397 A 20120525; CL 2013003375 A 20131125; CN 201210165777 A 20120525; CN 201220240542 U 20120525; CO 13272843 A 20131120; DE 202012012827 U 20120525; EP 12724953 A 20120525; EP 2012059833 W 20120525; ES 12724953 T 20120525; HU E12724953 A 20120525; KR 20137032454 A 20120525; LT 12724953 T 20120525; MX 2013013559 A 20120525; PL 12724953 T 20120525; PT 12724953 T 20120525; RU 2013157335 A 20120525; SI 201230782 A 20120525; UA A201315335 A 20120525; US 201214114601 A 20120525; ZA 201308889 A 20131126