

Title (en)

PRODUCTION PLANT FOR FORMING ENGINEERED COMPOSITE STONE SLABS

Title (de)

PRODUKTIONSANLAGE ZUR FORMUNG MANIPULIERTER VERBUNDSTEINPLATTEN

Title (fr)

USINE DE PRODUCTION POUR LA FORMATION DE DALLES DE PIERRE COMPOSITE ARTIFICIELLE

Publication

EP 3322569 A4 20190626 (EN)

Application

EP 15898434 A 20150713

Priority

US 2015040154 W 20150713

Abstract (en)

[origin: WO2017010984A1] An engineered stone production plant includes a vacuum vibration press ("VVP") suspended above the ground, so that a conveyor belt and/or returning empty trays or molds from a curing oven to a mixing station can pass beneath the VVP. Rigid, self-supporting trays or molds can convey slabs through the plant on rollers, which allow independent horizontal movement of the slabs during spreading and coloring/veining of the slab mixture. Embodiments include air levitation for transporting slabs into and out of the VVP. The curing oven can be air-heated. The pressing plate can be sealed with the tray or mold by walls that extend downwardly from the press plate over a flexible covering sheet, by a gasket surrounding the pressing plate, or by an angle strip surrounding the slab mixture. In embodiments, the slab size can be changed by exchanging elastomeric mold walls, or by exchanging molds and pressing platens.

IPC 8 full level

B28B 1/08 (2006.01); **B28B 3/02** (2006.01); **B28B 5/02** (2006.01); **B28B 5/04** (2006.01); **B28B 7/44** (2006.01); **B28B 11/10** (2006.01); **B28B 13/00** (2006.01); **B28B 15/00** (2006.01); **B29C 43/56** (2006.01); **B30B 11/02** (2006.01); **B30B 15/04** (2006.01)

CPC (source: EP KR)

B28B 3/022 (2013.01 - EP); **B28B 5/021** (2013.01 - EP); **B28B 5/022** (2013.01 - EP); **B28B 5/04** (2013.01 - EP); **B28B 7/44** (2013.01 - EP); **B28B 13/04** (2013.01 - EP KR); **B28B 15/00** (2013.01 - EP); **B29B 7/88** (2013.01 - KR); **B29C 43/56** (2013.01 - EP); **B29C 67/244** (2013.01 - EP KR); **B30B 11/022** (2013.01 - EP KR); **B30B 11/027** (2013.01 - EP); **B30B 15/30** (2013.01 - EP); **B30B 15/34** (2013.01 - EP); **B29K 2309/14** (2013.01 - EP); **B29L 2031/10** (2013.01 - EP); **B29L 2031/104** (2013.01 - EP)

Citation (search report)

- [XAI] US 4698010 A 19871006 - TONCELLI MARCELLO [IT]
- [Y] US 2014205703 A1 20140724 - BANUS CHRISTOPHER T [US]
- [Y] US 3989581 A 19761102 - KOBER HARALD, et al
- See references of WO 2017010984A1

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)

WO 2017010984 A1 20170119; BR 112018000363 A2 20180911; BR 112018000363 B1 20220705; CA 2991915 A1 20170119; CA 2991915 C 20220927; CN 108136615 A 20180608; EP 3322569 A1 20180523; EP 3322569 A4 20190626; KR 102279176 B1 20210720; KR 20180030111 A 20180321; MX 2018000391 A 20180426

DOCDB simple family (application)

US 2015040154 W 20150713; BR 112018000363 A 20150713; CA 2991915 A 20150713; CN 201580083096 A 20150713; EP 15898434 A 20150713; KR 20187004183 A 20150713; MX 2018000391 A 20150713