

Title (en)  
METHOD AND APPARATUS FOR PRODUCING A NONWOVEN FABRIC PRODUCT

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG EINES VLIESPRODUKTES

Title (fr)  
PROCÉDÉ ET DISPOSITIF DE FABRICATION D'UN PRODUIT NON TISSÉ

Publication  
**EP 2352872 A1 20110810 (DE)**

Application  
**EP 09801384 A 20091112**

Priority  
• DE 2009001619 W 20091112  
• DE 102008060327 A 20081203

Abstract (en)  
[origin: WO2010063253A1] The invention relates to a method and to an apparatus for producing a nonwoven fabric product, which is compacted by water jet impingement and has a groove-shaped structuring on the surface thereof. In one embodiment of the invention, a nozzle bar which has a nozzle strip (14) and is driven in an oscillating manner transversely to the direction of movement of a material web is used, wherein the nozzle strip comprises a plurality of outlet openings for subjecting the material web to the water jet impingement and, in addition to a group of outlet openings (A; G1) serving the compaction of the material web, comprises a further group of outlet openings (A; G2) for generating a structuring.

IPC 8 full level  
**D04H 1/492** (2012.01); **D04H 3/11** (2012.01); **D04H 18/00** (2012.01)

CPC (source: EP)  
**D04H 1/02** (2013.01); **D04H 1/492** (2013.01); **D04H 3/11** (2013.01); **D04H 18/04** (2013.01)

Citation (search report)  
See references of WO 2010063253A1

Designated contracting state (EPC)  
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 SE SI SK SM TR

DOCDB simple family (publication)  
**DE 102008060327 A1 20100610**; CN 102239286 A 20111109; EA 020014 B1 20140829; EA 201100894 A1 20120130;  
EP 2352872 A1 20110810; EP 2352872 B1 20130116; PL 2352872 T3 20130628; WO 2010063253 A1 20100610

DOCDB simple family (application)  
**DE 102008060327 A 20081203**; CN 200980148450 A 20091112; DE 2009001619 W 20091112; EA 201100894 A 20091112;  
EP 09801384 A 20091112; PL 09801384 T 20091112