

Title (en)  
METHOD AND DEVICE FOR PRODUCING AN HMLS YARN

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG EINES HMLS GARNES

Title (fr)  
PROCEDE ET INSTALLATION DE FABRICATION D'UN FIL HMLS

Publication  
**EP 2737114 A1 20140604 (DE)**

Application  
**EP 12745993 A 20120723**

Priority  
• CH 12402011 A 20110725  
• CH 2012000173 W 20120723

Abstract (en)  
[origin: WO2013013332A1] The invention relates to a method and to a device for producing an HMLS yarn from a polyester melt (PET). The device comprises a spinning apparatus having a spinneret for extruding and a quench box for cooling a plurality of filament strands, a device for applying a spinning preparation and for combining the filament strands to form one thread, a winding apparatus and a drafting zone for drawing the thread that is provided between the spinning apparatus and the winding apparatus. The drafting zone is formed by a feed roller pair arranged downstream of the spinning apparatus and subsequent four to six drafting roller pairs. The first drafting roller pairs are provided with a heating apparatus and the last drafting roller pair is provided with a cooling apparatus. At least one of the two rollers of each drafting roller pair is provided with a heating or cooling apparatus. The speed with which the feed roller pair draws off the thread from the spinning apparatus is between 400 m/min and 600 m/min.

IPC 8 full level  
**D01D 5/16** (2006.01); **D01D 10/02** (2006.01)

CPC (source: EP)  
**D01D 5/16** (2013.01); **D01D 10/02** (2013.01); **D01F 6/62** (2013.01)

Citation (search report)  
See references of WO 2013013332A1

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 2013013332 A1 20130131**; CH 705306 A1 20130131; CH 705306 B1 20150630; CN 103797165 A 20140514; CN 103797165 B 20170215; EP 2737114 A1 20140604; EP 2737114 B1 20230607; ES 2954268 T3 20231121; JP 2014523494 A 20140911; JP 5984929 B2 20160906

DOCDB simple family (application)  
**CH 2012000173 W 20120723**; CH 12402011 A 20110725; CN 201280044423 A 20120723; EP 12745993 A 20120723; ES 12745993 T 20120723; JP 2014521893 A 20120723