

Title (en)

DEVICE AND METHOD FOR MELT SPINNING AND COOLING A GROUP OF FILAMENTS

Title (de)

VORRICHTUNG UND VERFAHREN ZUM SCHMELZSPINNEN UND KÜHLEN EINER FILAMENTSCHAR

Title (fr)

DISPOSITIF ET PROCÉDÉ DE FILAGE À CHAUD ET DE REFROIDISSEMENT D'UN ENSEMBLE DE FILAMENTS

Publication

EP 3209820 A1 20170830 (DE)

Application

EP 15784608 A 20151016

Priority

- DE 102014015729 A 20141023
- EP 2015073984 W 20151016

Abstract (en)

[origin: WO2016062626A1] The invention relates to a device and a method for melt spinning and cooling a group of filaments. The object of the invention is to spin as many filaments as possible in the smallest possible space, and to cool same in a uniform manner regardless. The object of the invention is achieved by means of a hollow cylindrical air cartridge having a porous inner cylinder as well as a porous outer cylinder. In this way, it is possible to guide filaments along and cool same, both inside and outside the air cartridge. This space-saving construction of a spinning and cooling device, in particular in the production of staple fibres, is particularly advantageous, in particular for economic reasons.

IPC 8 full level

D01D 5/088 (2006.01)

CPC (source: CN EP KR)

D01D 5/088 (2013.01 - CN EP KR); **D02J 13/001** (2013.01 - EP KR)

Citation (search report)

See references of WO 2016062626A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102014015729 A1 20160428; CN 107075735 A 20170818; CN 107075735 B 20190201; EP 3209820 A1 20170830; EP 3209820 B1 20180926; JP 2017531746 A 20171026; KR 20170072927 A 20170627; WO 2016062626 A1 20160428

DOCDB simple family (application)

DE 102014015729 A 20141023; CN 201580057281 A 20151016; EP 15784608 A 20151016; EP 2015073984 W 20151016; JP 2017522016 A 20151016; KR 20177013603 A 20151016