

Title (en)  
YARN COOLER

Title (de)  
GARNKÜHLER

Title (fr)  
REFROIDISSEUR DE FILS

Publication  
**EP 3012354 B1 20170913 (EN)**

Application  
**EP 15190143 A 20151016**

Priority  
JP 2014213630 A 20141020

Abstract (en)  
[origin: EP3012354A1] The qualities of yarns are uniformized. For each of cooling cylinders 30, a partition 51 is provided to surround each cooling cylinder 30 and form a circulation space 52 between the partition 51 and the outer circumferential surface of the cooling cylinder 30 to allow cooling wind to circulate in the circulation space 52, and at a border part between a supply space 23 to which the cooling wind is supplied from the outside and the circulation space 52, a flow adjustment plate 53 is provided to circulate the cooling wind from the supply space 23 into the circulation space 52 while adjusting the flow of the cooling wind.

IPC 8 full level  
**D01D 5/092** (2006.01)

CPC (source: EP)  
**D01D 5/088** (2013.01); **D01D 5/092** (2013.01)

Cited by  
CN113122943A

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)  
**EP 3012354 A1 20160427; EP 3012354 B1 20170913**; CN 105525370 A 20160427; CN 105525370 B 20190326; JP 2016079534 A 20160516; JP 6364311 B2 20180725

DOCDB simple family (application)  
**EP 15190143 A 20151016**; CN 201510683937 A 20151020; JP 2014213630 A 20141020