

Title (en)  
YARN COOLER

Title (de)  
GARNKÜHLER

Title (fr)  
REFROIDISSEUR DE FILS

Publication  
**EP 3121312 B1 20170712 (EN)**

Application  
**EP 16179202 A 20160713**

Priority  
JP 2015145163 A 20150722

Abstract (en)  
[origin: EP3121312A1] An object is to actively improve the effect of flow adjustment in a yarn cooler including a plurality of porous plates, as compared with the configuration where a single porous plate is provided, and to effectively restrain a time variation in the flow of cooling air entering into a yarn running space. The yarn cooler includes: a first porous plate 36 disposed in a supply passage 35 where cooling air flows upward along an impassable section 34 of a cooling cylinder 31, the first porous plate 36 being configured to adjust the flow of the cooling air; and a second porous plate 37 disposed above and apart from the first porous plate 36 in the supply passage 35, the second porous plate 37 being configured to further adjust the flow of the cooling air having been adjusted by the first porous plate 36, and the thickness ratio of the second porous plate 37 is designed to be smaller than the thickness ratio of the first porous plate 36.

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

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

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 3121312 A1 20170125; EP 3121312 B1 20170712**; CN 106367821 A 20170201; CN 106367821 B 20200320; JP 2017025434 A 20170202; JP 6522452 B2 20190529

DOCDB simple family (application)  
**EP 16179202 A 20160713**; CN 201610554810 A 20160714; JP 2015145163 A 20150722