

Title (en)  
FIBER AND WADDING

Title (de)  
FASER UND WATTE

Title (fr)  
FIBRE ET OUATE

Publication  
**EP 3530777 A4 20190828 (EN)**

Application  
**EP 17862130 A 20171019**

Priority  
• JP 2016204936 A 20161019  
• JP 2017037828 W 20171019

Abstract (en)  
[origin: EP3530777A1] Provided is a fiber having superior bulkiness despite being a synthetic fiber, and wadding. The fiber contains inorganic particles having an average particle diameter of 1  $\mu\text{m}$  to 20  $\mu\text{m}$  within the fiber and fiber pores having a maximum width of 0.1  $\mu\text{m}$  to 5  $\mu\text{m}$  and maximum length of 1  $\mu\text{m}$  to 50  $\mu\text{m}$  are formed in fiber cross-sections in the axial direction of the fiber. The wadding contains a fiber A, and the content of fiber A in the wadding (100% by weight) is 50% by weight to 100% by weight, down power is 270 cm/g to 400 cm/g, and the fiber A contains inorganic particles having an average particle diameter of 1  $\mu\text{m}$  to 20  $\mu\text{m}$  within the fiber.

IPC 8 full level  
**D01F 6/54** (2006.01); **D03D 15/58** (2021.01); **D01D 5/247** (2006.01); **D01F 1/10** (2006.01); **D01F 6/52** (2006.01); **D04H 1/02** (2006.01)

CPC (source: EP US)  
**D01D 5/24** (2013.01 - US); **D01D 5/247** (2013.01 - EP US); **D01F 1/10** (2013.01 - EP US); **D01F 6/18** (2013.01 - US);  
**D01F 6/54** (2013.01 - EP US); **D01F 6/62** (2013.01 - US); **D02J 1/22** (2013.01 - US); **D03D 15/58** (2021.01 - US); **D04H 1/02** (2013.01 - EP US);  
**D04H 1/43** (2013.01 - US)

Citation (search report)  
• [XAI] EP 1722015 A1 20061115 - ASAHI KASEI FIBERS CORP [JP]  
• [XAI] US 2003088012 A1 20030508 - NARUSE YOSHIHIRO [JP], et al  
• [A] JP 2002339150 A 20021127 - TORAY INDUSTRIES  
• See references of WO 2018074544A1

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)  
**EP 3530777 A1 20190828**; **EP 3530777 A4 20190828**; CN 109844191 A 20190604; CN 109844191 B 20220405; JP 6614244 B2 20191204;  
JP WO2018074544 A1 20181025; US 2019233985 A1 20190801; WO 2018074544 A1 20180426

DOCDB simple family (application)  
**EP 17862130 A 20171019**; CN 201780063658 A 20171019; JP 2017037828 W 20171019; JP 2017559716 A 20171019;  
US 201916378614 A 20190409