

Title (en)
TOWEL PRODUCT

Title (de)
HANDTUCHPRODUKT

Title (fr)
PRODUIT DE SERVIETTE

Publication
EP 2992796 B1 20180919 (EN)

Application
EP 14804000 A 20140331

Priority
• JP 2013112299 A 20130528
• JP 2014059562 W 20140331

Abstract (en)
[origin: EP2992796A1] To provide a towel product capable of maintaining features of honeycomb weave of the conventional technique as well as providing improved water absorbency, lightness, and a good touch feeling more than those of the towels produced by the conventional technique. The towel of the present invention basically has a typical honeycomb weave structure. A first feature thereof is to use hollow yarns having a hollow ratio of a range between 30% and 60%. A shape of hollow yarns can be maintained. With the above described structure, the water absorbency, the lightness, the good touch feeling, and a drying property can be improved. A second feature is to use hollow yarns made by twisting fibers of raw cottons having an effective fiber length of a range between 25 mm and 42 mm. This contributes to maintaining of the durability.

IPC 8 full level
A47K 10/02 (2006.01); **D02G 3/40** (2006.01); **D03D 13/00** (2006.01); **D03D 15/567** (2021.01); **D03D 15/68** (2021.01); **D03D 25/00** (2006.01)

CPC (source: EP US)
A47K 10/02 (2013.01 - EP US); **D02G 3/02** (2013.01 - EP US); **D03D 1/0017** (2013.01 - US); **D03D 13/004** (2013.01 - EP US); **D03D 15/217** (2021.01 - EP US); **D03D 15/44** (2021.01 - EP US); **D03D 15/567** (2021.01 - US); **D03D 15/573** (2021.01 - EP US); **D03D 15/68** (2021.01 - EP US); **D10B 2201/02** (2013.01 - EP US); **D10B 2403/033** (2013.01 - EP US)

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 2992796 A1 20160309; **EP 2992796 A4 20170405**; **EP 2992796 B1 20180919**; CN 105283107 A 20160127; HK 1219400 A1 20170407; JP 2016000299 A 20160107; JP 5801984 B2 20151028; JP WO2014192407 A1 20170223; US 2016102422 A1 20160414; WO 2014192407 A1 20141204

DOCDB simple family (application)
EP 14804000 A 20140331; CN 201480030525 A 20140331; HK 16107570 A 20160629; JP 2014059562 W 20140331; JP 2015167405 A 20150827; JP 2015519721 A 20140331; US 201414894145 A 20140331