

Title (en)  
ACRYLIC YARN PACKAGE

Title (de)  
ACRYLGARNSPULE

Title (fr)  
EMBALLAGE DE FIL ACRYLIQUE

Publication  
**EP 3845477 A4 20221116 (EN)**

Application  
**EP 19855987 A 20190820**

Priority  
• JP 2018160115 A 20180829  
• JP 2019032407 W 20190820

Abstract (en)  
[origin: EP3845477A1] Provided is an acrylic yarn package which prevents winding yarn collapse during transportation when an acrylic yarn having a high total fineness is wound around a core bobbin. The acrylic yarn package includes an acrylic yarn wound around a bobbin and having a total fineness of 8000 dtex or more. The acrylic yarn on the package has a yarn width of 0.22 mm/1000 dtex or more and hardness of 60 or more.

IPC 8 full level  
**B65H 55/04** (2006.01)

CPC (source: EP KR US)  
**B65H 55/00** (2013.01 - US); **B65H 55/04** (2013.01 - EP KR); **B65H 2701/313** (2013.01 - EP KR US)

Citation (search report)  
• [YD] JP 2002003081 A 20020109 - TORAY INDUSTRIES  
• [Y] JP 2003335457 A 20031125 - TOYO BOSEKI  
• [Y] JP 2013129452 A 20130704 - TORAY INDUSTRIES  
• [Y] EP 1431430 A1 20040623 - ASAHI KASEI FIBERS CORP [JP]  
• [Y] JP 2016069160 A 20160509 - TORAY INDUSTRIES  
• [Y] EP 0151836 A1 19850821 - TORAY INDUSTRIES [JP]  
• See references of WO 2020045161A1

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 3845477 A1 20210707; EP 3845477 A4 20221116**; CN 112533850 A 20210319; JP WO2020045161 A1 20210810;  
KR 20210049790 A 20210506; TW 202012295 A 20200401; US 2021323786 A1 20211021; WO 2020045161 A1 20200305

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**EP 19855987 A 20190820**; CN 201980051912 A 20190820; JP 2019032407 W 20190820; JP 2019545838 A 20190820;  
KR 20217004345 A 20190820; TW 108130134 A 20190823; US 201917269010 A 20190820