

Title (en)  
DELIVERY ROLLER, DRAFTING DEVICE, AND SPINNING MACHINE

Title (de)  
AUSGABEROLLE, STRECKVORRICHTUNG UND SPINNMASCHINE

Title (fr)  
ROULEAU DE DISTRIBUTION, DISPOSITIF D'ÉTIRAGE ET MÉTIER À FILER

Publication  
**EP 2947188 A3 20160511 (EN)**

Application  
**EP 15158777 A 20150312**

Priority  
JP 2014107378 A 20140523

Abstract (en)  
[origin: EP2947188A2] A front top roller (65b) is a delivery roller arranged in a drafting device (6) to deliver a sliver (S). The front top roller (65b) includes a roller body (92) and a property modified layer (94) formed on an outer peripheral surface of the roller body (92). The roller body (92) is made of a rubber composite of a type A durometer hardness in the range from 40 to 83. The property modified layer (94) is formed by modifying the rubber composite used for making the roller body (92) such that a microhardness of the property modified layer (94) is greater than that of the roller body (92) by a value in the range from 1 to 15.

IPC 8 full level  
**D01H 5/74** (2006.01)

CPC (source: EP)  
**D01H 5/74** (2013.01)

Citation (search report)

- [Y] WO 2014006915 A1 20140109 - YAMAUCHI CORP [JP]
- [Y] JP 2010256617 A 20101111 - CANON KK
- [Y] US 4550478 A 19851105 - OLCOTT JR ROBERT S [US]
- [Y] US 2386583 A 19451009 - BACON HENRY M

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 2947188 A2 20151125; EP 2947188 A3 20160511; EP 2947188 B1 20190828**; CN 105088443 A 20151125; CN 105088443 B 20191112; JP 2015221954 A 20151210; JP 6331689 B2 20180530

DOCDB simple family (application)  
**EP 15158777 A 20150312**; CN 201510246935 A 20150514; JP 2014107378 A 20140523