

Title (en)  
Yarn detecting system for spinning machine

Title (de)  
Garnerkennungssystem für Spinnmaschine

Title (fr)  
Système de détection de fil de métier à filer

Publication  
**EP 2706134 A3 20150527 (EN)**

Application  
**EP 13180190 A 20130813**

Priority  
JP 2012194980 A 20120905

Abstract (en)  
[origin: EP2706134A2] A yarn detecting system for a spinning machine includes a plurality of yarn detecting units, a signal transmitter and a signal receiver. Each ring plate is provided for a plurality of spinning stations. The yarn detecting unit is provided for each ring plate and includes a plurality of yarn detecting devices which is provided for the respective spinning stations and each of which includes a sensor and generates a detection signal indicative of a state of yarn at the spinning station and a determining device which determines the state of the yarns according to the detection signals and generates first pulse signals representing the state of the yarns. Signal transmission is performed from the determining device to the main controller and the signal transmission between the signal transmitter and the signal receiver provided between the adjacent ring plates is performed in a non-contact manner.

IPC 8 full level  
**D01H 13/16** (2006.01)

CPC (source: EP)  
**D01H 13/1616** (2013.01)

Citation (search report)  
• [X] CN 102061537 A 20110518 - BEIJING JINGWEI TEXTILE MACHINERY NEW TECHNOLOGY CO LTD  
• [A] US 2012007438 A1 20120112 - KURODA TADAHIRO [JP]

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 2706134 A2 20140312; EP 2706134 A3 20150527; EP 2706134 B1 20161102**; CN 103668609 A 20140326; CN 103668609 B 20160427; JP 2014051752 A 20140320; JP 5796558 B2 20151021

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**EP 13180190 A 20130813**; CN 201310396853 A 20130904; JP 2012194980 A 20120905