

Title (en)  
METHOD FOR SPUN YARN DRAWING

Title (de)  
VERFAHREN ZUM STRECKEN VON SPINNGARN

Title (fr)  
MÉTHODE POUR ÉTIRAGE DE FIL FILÉ

Publication  
**EP 3012356 A1 20160427 (EN)**

Application  
**EP 15190362 A 20151019**

Priority  
JP 2014214312 A 20141021

Abstract (en)  
A spun yarn drawing apparatus by which yarns with a low boiling water shrinkage are obtained while surface temperatures of heat-setting heating rollers are restrained to be low is provided. The spun yarn drawing apparatus includes preliminary heating godet rollers 14 and 15 and heat-setting godet rollers 16 to 18 which are heating rollers rotating at higher yarn feeding speeds than the godet rollers 14 and 15. Onto each of these godet rollers 14 to 18, the yarns are wound at a winding angle of smaller than 270 degrees. In the heat-setting godet rollers 16 to 18, the yarn feeding speed of a roller on the downstream side is equal to or lower than the yarn feeding speed of a roller on the upstream side. Furthermore, the deceleration rate between the yarn feeding speed of the most upstream godet roller 16 in the yarn running direction and the yarn feeding speed of the most downstream godet roller 18 in the yarn running direction is 2% or higher.

IPC 8 full level  
**D01D 10/02** (2006.01); **B65H 51/08** (2006.01); **D01D 5/16** (2006.01); **D01D 10/04** (2006.01)

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**D01D 5/16** (2013.01 - CN EP); **D01D 10/02** (2013.01 - EP); **D01D 10/0436** (2013.01 - EP); **D02J 1/22** (2013.01 - EP)

Citation (applicant)  
• JP 2011122276 A 20110623 - TMT MACHINERY INC  
• JP 2003105628 A 20030409 - TORAY INDUSTRIES

Citation (search report)  
• [XI] CN 102168318 A 20110831 - WUXI TAIJI INDUSTRY CO LTD  
• [XI] CN 103668493 A 20140326 - WUXI TAIJI INDUSTRY CO LTD  
• [I] US 2012180450 A1 20120719 - ZENZEN DIRK [DE]  
• [I] DE 102013220442 A1 20140417 - TMT MACHINERY INC [JP]

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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

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DOCDB simple family (application)  
**EP 15190362 A 20151019**; CN 201510684329 A 20151020; JP 2014214312 A 20141021