Title (en)

Method for automatically coiling a spool and a thread spool and coiling device for carrying out the method

Title (de)

Verfahren zum automatischen Aufspulen einer Spule und einer Garnrolle sowie Spuleinrichtung zur Durchführung des Verfahrens

Title (fr)

Procédé d'embobinage automatique d'une bobine et d'un rouleau de fil et dispositif de bobinage pour la réalisation du procédé

Publication

EP 2589695 B1 20140521 (DE)

Application

EP 12190701 A 20121031

Priority

DE 102011085775 A 20111104

Abstract (en)

[origin: EP2589695A1] The method involves inserting a coil (13) into a coil retainer of a reeling device (8), and determining residual thread on the inserted coil by using a residual thread sensor (16) i.e. light barrier sensor. The coil is wound or the coil is released only when the inserted coil carries no residual thread. A signal transmitter (17) is connected with the sensor, where the sensor is provided with a light source and a light detector. A surface of the coil is used as a reflector in a light path between the light source and the light detector. An independent claim is also included for a reeling device for executing a method for automatically winding a coil from a thread spool.

IPC 8 full level

D05B 59/00 (2006.01); **D05B 59/02** (2006.01)

CPC (source: EP KR)

B65H 54/22 (2013.01 - KR); **B65H 63/08** (2013.01 - KR); **D05B 59/00** (2013.01 - EP KR); **D05B 59/02** (2013.01 - EP KR); B65H 2553/00 (2013.01 - KR); B65H 2553/41 (2013.01 - KR); B65H 2553/412 (2013.01 - KR); B65H 2553/51 (2013.01 - KR)

Cited by

CN104233658A; EP3006617A1

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 2589695 A1 20130508; **EP 2589695 B1 20140521**; CN 203049235 U 20130710; DE 102011085775 A1 20130508; KR 200482631 Y1 20170215; KR 20130002869 U 20130514; TW M457745 U 20130721

DOCDB simple family (application)

EP 12190701 A 20121031; CN 201220563785 U 20121030; DE 102011085775 A 20111104; KR 20120009462 U 20121019; TW 101220594 U 20121025