Title (en)

Determination of a monitoring speed for a winding bobbin of a winding machine

Title (de)

Ermittlung einer Überwachungsdrehzahl für eine Wickelspule einer Wickelmaschine

Title (fr)

Détermination d'un régime de surveillance pour une bobine d'enroulement d'une bobineuse

Publication

EP 2824053 B1 20170531 (DE)

Application

EP 13175929 A 20130710

Priority

EP 13175929 A 20130710

Abstract (en)

[origin: CN104276445A] The invention concerns a method for determining a monitoring rotating speed (reliable envelope curve rotating speed) for a winding coil of a winding machine, a control unit for the winding machine and the winding machine. The winding machine is used for winding a winding material on the winding coil rotating at the practical rotating speed of the winding coil during winding of winding material, wherein a supply coil is located ahead of the winding coil in the winding machine, so that the winding material is conveyed to the winding coil through the supply coil rotating at the practical rotating speed of the supply coil during winding. To protect the winding coil against mechanical damage during winding, the ratio of the practical winding thickness of the winding coil is formed by the practical rotating speed of the winding coil and the practical rotating speed of the supply coil and the monitoring rotating speed of the winding coil is determined through the predetermined limit rotating speed (the reliable rotating speed of unused winding coils) of winding coils free of winding and the ratio describing the pratical winding thickness of the winding coil.

IPC 8 full level

B65H 59/38 (2006.01); **B65H 63/04** (2006.01)

CPC (source: EP)

B65H 59/385 (2013.01); **B65H 63/04** (2013.01); B65H 2701/31 (2013.01)

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 2824053 A1 20150114; **EP 2824053 B1 20170531**; CN 104276445 A 20150114; CN 104276445 B 20181120

DOCDB simple family (application)

EP 13175929 A 20130710; CN 201410326013 A 20140709