

Title (en)

Method and apparatus for winding yarn on a bobbin.

Title (de)

Verfahren und Vorrichtung zum Aufwickeln eines Fadens auf eine Spule.

Title (fr)

Procédé et dispositif pour enrouler un fil sur une bobine.

Publication

EP 0453622 B1 19950215 (DE)

Application

EP 90109240 A 19900423

Priority

EP 90109240 A 19900423

Abstract (en)

[origin: EP0453622A1] The yarn is guided through a yarn guide (3) which is driven by a stepping motor (10) via a cord (7). According to the invention, the stepping motor (10) is controlled by a programmable control as a function of a preselected winding law. For the purpose of rapid reacceleration of the yarn guide (3) after a reversal point is reached, a spring element exerts on the latter a force directed towards the centre point of the traversing interval. It consists of two oppositely acting torsion bars, each of which remains deflected out of its position of equilibrium when the yarn guide (3) is positioned within the traversing interval. The effective length of a torsion bar can be respectively reduced by means of an electrically actuatable coupling and its spring constant thereby increased. The stepping motor (10) is operated approximately at three times the nominal current in the region of the reversal points. <IMAGE>

IPC 1-7

B65H 54/28

IPC 8 full level

B65H 54/28 (2006.01)

CPC (source: EP)

B65H 54/2821 (2013.01); **B65H 54/2887** (2013.01); **B65H 54/386** (2013.01); **B65H 2701/31** (2013.01)

Cited by

EP1070676A1; DE102009017857A1; DE102012023975A1; US6405966B1; US6308907B1; CN104891264A; DE19722769A1; DE102004025519A1; EP1600414A3; DE102008017302A1; EP1125877A1; EP1277860A1; EP1048601A1; EP0949179A1; EP1880963A3; FR2845072A1; EP1004532A1; EP1880964A3; EP1057765A3; US6008613A; CN1131839C; DE19835888B4; CN104328545A; EP1044917A1; DE29616651U1; EP0829444A1; EP0829443A1; US5918829A; DE19963232A1; US6065712A; DE19807030B4; CN112875556A; EP0950631A1; EP2740699A3; EP2765102A3; DE102020110580A1; EP3281902A1; EP1880964A2; DE102009022061A1; US6505791B1; WO2004028944A3; WO9842606A1; WO0128907A3; WO9948786A1; US6186435B1; US6820405B2; WO2019228891A1; EP2740699A2; DE102012023975B4; WO0037345A1; WO0055082A1; WO9905055A1; WO2013164190A1; EP1507730B2

Designated contracting state (EPC)

CH DE FR GB IT LI

DOCDB simple family (publication)

EP 0453622 A1 19911030; **EP 0453622 B1 19950215**; DE 59008484 D1 19950323

DOCDB simple family (application)

EP 90109240 A 19900423; DE 59008484 T 19900423