

Title (en)
CROSS-WINDING DEVICE FOR A TEXTILE MACHINE WHICH PRODUCES CROSS-WOUND BOBBINS

Title (de)
FADENCHANGIERVORRICHTUNG FÜR EINE KREUZSPULEN HERSTELLENDEN TEXTILMASCHINE

Title (fr)
DISPOSITIF DE VA-ET-VIENT DE FIL POUR UNE MACHINE TEXTILE PRODUISANT DES BOBINES CROISÉES

Publication
EP 2106378 B1 20100512 (DE)

Application
EP 07819139 A 20071019

Priority
• EP 2007009074 W 20071019
• DE 102006053135 A 20061111

Abstract (en)
[origin: WO2008058605A1] The invention relates to a cross-winding device (20) for a textile machine (1) which produces cross-wound bobbins and which has numerous operating positions (4), and which has a thread carrier rod (13) extending in a longitudinal direction relative to the machine and actuated in a traverse direction and on which cross-winding thread guides (12) are fixed. The cross-winding device (20) is also equipped with a so-called edge transferring device (18) which ensures that the cross-winding thread guides (12) run up to both inner (21) and outer (22) reversal points. In addition, the cross-winding device (20) has at least one energy storage unit (30) which supports the change of direction of the thread carrier rod (13) in the area of the reversal points (21, 22). According to the invention, it is provided that driver elements (31) are arranged on the thread carrier rod (13) which work together alternately in the cross-winding end areas thereof with a mechanical stop (32) of a spring system (33) which is formed as an energy storing unit (30). Said spring system (33) has at least two prestressed spring elements (34A, 34B) which lie on opposite sides of the mechanical stop (32) and which are formed and positioned such that the spring system (33), originating from a fulcrum (M) and going toward both sides, has for each side a decreasing spring characteristic (45, 46).

IPC 8 full level
B65H 54/28 (2006.01); **B65H 54/32** (2006.01)

CPC (source: EP)
B65H 54/2809 (2013.01); **B65H 54/2818** (2013.01); **B65H 54/2881** (2013.01); **B65H 54/386** (2013.01); **B65H 2701/31** (2013.01)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102006053135 A1 20080515; AT E467600 T1 20100515; CN 101535159 A 20090916; CN 101535159 B 20120111;
DE 502007003806 D1 20100624; EP 2106378 A1 20091007; EP 2106378 B1 20100512; WO 2008058605 A1 20080522

DOCDB simple family (application)
DE 102006053135 A 20061111; AT 07819139 T 20071019; CN 200780041791 A 20071019; DE 502007003806 T 20071019;
EP 07819139 A 20071019; EP 2007009074 W 20071019