

Title (en)

WINDING APPARATUS FOR WINDING FILAMENTARY MATERIAL ON A SPOOL

Publication

EP 0043367 B1 19841205 (DE)

Application

EP 81890106 A 19810624

Priority

DE 3024093 A 19800627

Abstract (en)

[origin: ES8204388A1] A winding machine which can move back and forth on guide rails for winding strand-shaped winding material includes a frame and a spool, the spool being rotatably mounted on a vertical spindle sleeve arm. A spool speed detection meter for detecting the speed of rotation of the spool and a measuring device for detecting the arrival speed of the winding material are provided on a stationary strand guide. A computer compares the speed of rotation of the spool and the arrival speed of the winding material, and upon a sudden change in the ratio of both these measured variables effects a reverse movement of the feed drive which moves the winding machine.

IPC 1-7

B65H 54/28

IPC 8 full level

B65H 54/28 (2006.01)

CPC (source: EP US)

B65H 54/2863 (2013.01 - EP US); **B65H 54/2884** (2013.01 - EP US)

Cited by

DE102012001592B4; GB2296481A; GB2183212A; GB2183212B; GB2207211A; GB2271973A; CN108502621A; US9783399B2

Designated contracting state (EPC)

AT BE CH FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0043367 A2 19820106; EP 0043367 A3 19820113; EP 0043367 B1 19841205; AT E10605 T1 19841215; BR 8104045 A 19820316; DE 3024093 A1 19820121; DE 3024093 C2 19881215; ES 503446 A0 19820516; ES 8204388 A1 19820516; FI 66325 B 19840629; FI 66325 C 19841010; FI 811960 L 19811228; JP S5777169 A 19820514; JP S6364376 B2 19881212; US 4411396 A 19831025

DOCDB simple family (application)

EP 81890106 A 19810624; AT 81890106 T 19810624; BR 8104045 A 19810626; DE 3024093 A 19800627; ES 503446 A 19810626; FI 811960 A 19810623; JP 9848981 A 19810626; US 27628981 A 19810622