Title (en)

Winding machine

Title (de)

Aufspulmaschine

Title (fr)

Bobinoir

Publication

EP 0799787 B1 20020731 (DE)

Application

EP 97104170 A 19970312

Priority

DE 19613490 A 19960404

Abstract (en)

[origin: EP0799787A2] Continuously running yarn (1) is wound on a package (17)on a winder having a pressure roller (5) and a rotary head (11) with two spindles (14,15). The head (11) rotates to place the spindles (14,15) alternately at a winding station and a changing station. The bearings of the spindles (14,15) are moved by a bearing guide motion (12,13) relative to the rotary head (11) between an inner and an outer position. The guide motion (12,13) is arranged so that each respective spindle is at its outer position at the beginning of winding at the winding station. The spindle movement which is required to allow the package (17) to build is carried out by the bearing guide motion (12,13) and/or the rotary head (11). Preferably the spindle bearing guide (12,13)performs a partially circular motion through 180 degrees which in its outermost position has a common tangent with the rotary head (11) motion. The motions of the guides (12,13) and the rotary head (11) are independent of each other and are controlled through a programmable controller (10). Combined motion of the guides (12,13) and rotary head (11) can provide circular or elliptical paths for the spindles. The pressure roller (5) is carried on a hinged mounting (8) so that it moves in a radial direction relative to the package (17) as it builds. An alternative design for the guides (12,13) has a linear rather than a circular motion.

IPC 1-7

B65H 67/048; B65H 54/52

IPC 8 full level

B65H 54/52 (2006.01); **B65H 67/048** (2006.01)

CPC (source: EP KR US)

B65H 54/40 (2013.01 - KR); **B65H 67/048** (2013.01 - EP KR US); B65H 2402/52 (2013.01 - KR); B65H 2701/31 (2013.01 - EP KR US)

Cited by

CN114715739A; US6027061A; EP0825143A3

Designated contracting state (EPC)

CH DE ES FR GB IT LI

DOCDB simple family (publication)

EP 0799787 A2 19971008; **EP 0799787 A3 19980513**; **EP 0799787 B1 20020731**; CN 1081598 C 20020327; CN 1163229 A 19971029; DE 59707828 D1 20020905; KR 970069848 A 19971107; TW 396221 B 20000701; US 5816513 A 19981006

DOCDB simple family (application)

EP 97104170 A 19970312; CN 97104588 A 19970402; DE 59707828 T 19970312; KR 19970012280 A 19970403; TW 86103871 A 19970326; US 83304397 A 19970403