

Title (en)

Winding apparatus for a continuously running thread

Title (de)

Spulmaschine für einen kontinuierlich auflaufenden Faden

Title (fr)

Bobinoir pour un fil en déplacement continu

Publication

**EP 0768271 B1 20000209 (DE)**

Application

**EP 96116021 A 19961007**

Priority

DE 19538480 A 19951016

Abstract (en)

[origin: EP0768271A2] A winding machine for a continuously accumulating thread (1) has a rotatable drum (6) on which are mounted two reel spindles which can be rotated. Ahead of the drum as the thread runs, the machine also has a thread laying device (4) and a roller (5) which makes contact on its periphery with the reel (15) being formed on the operating spindle (9 or 10). The distance between the roller axis (13) and the operating spindle axis (11) can be changed in an expanding direction corresp. to the increasing reel dia. The machine has a drum rotation controller (20), a device for determining thread speed and a device for determining the rotational speed of the operating spindle. The controller has a computer unit (21) for calculating the present instantaneous dia. of the reel under formation and its present instantaneous angular speed between beginning and end of each computing cycle for use as control quantities for the drum rotation over the complete reel travel. Also claimed is a process for control of the winding machine using the above appts. where the drum is rotated with angular speed which varies continuously from one computing cycle to the next.

IPC 1-7

**B65H 67/048**; **B65H 54/52**

IPC 8 full level

**B65H 54/02** (2006.01); **B65H 54/52** (2006.01); **B65H 67/048** (2006.01)

CPC (source: EP KR US)

**B65H 54/52** (2013.01 - EP KR US); **B65H 61/005** (2013.01 - KR); **B65H 67/048** (2013.01 - EP KR US); **B65H 2511/212** (2013.01 - EP US); **B65H 2513/11** (2013.01 - KR); **B65H 2557/24** (2013.01 - EP KR US); **B65H 2557/30** (2013.01 - KR); **B65H 2701/31** (2013.01 - EP KR US)

Cited by

DE10151310A1; KR970020917A; EP0905077A3; US6105896A; EP1118569A3; WO9842607A1; WO2024012929A1

Designated contracting state (EPC)

AT CH DE FR GB IT LI

DOCDB simple family (publication)

**EP 0768271 A2 19970416**; **EP 0768271 A3 19980121**; **EP 0768271 B1 20000209**; AT E189666 T1 20000215; DE 19538480 C1 19970507; DE 19538480 C2 20011025; DE 59604407 D1 20000316; JP 3523429 B2 20040426; JP H09169469 A 19970630; KR 970020917 A 19970528; TW 316892 B 19971001; US 5785265 A 19980728

DOCDB simple family (application)

**EP 96116021 A 19961007**; AT 96116021 T 19961007; DE 19538480 A 19951016; DE 59604407 T 19961007; JP 27239896 A 19961015; KR 19960046150 A 19961016; TW 85112332 A 19961009; US 73255196 A 19961015