

Title (en)

Traverse device for automatic winder

Title (de)

Traversiervorrichtung für automatische Aufwickelmaschine

Title (fr)

Dispositif de trancannage pour bobinoir automatique

Publication

EP 1018479 A3 20010131 (EN)

Application

EP 99124772 A 19991213

Priority

JP 203699 A 19990107

Abstract (en)

[origin: EP1018479A2] In conventional automatic winders, during knotting, a belt traverse device is reversely rotated in response to the reverse rotation of a drum, causing a yarn to be caught at a traverse end. According to the present invention, a clutch device is interposed between a speed change mechanism section 10 and traverse mechanism section 20, and during knotting, the clutch device is disconnected to block power transmission to the traverse mechanism section 20. The clutch device comprises a ball clutch comprising an output gear 15 having balls 15a buried therein and a clutch plate 14 having as many clutch holes as the balls in which the balls are fitted. The speed change mechanism section and the traverse mechanism section can be connected together only with a set phase. <IMAGE>

IPC 1-7

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IPC 8 full level

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Citation (search report)

- [X] US 3310246 A 19670321 - GEORGE MCCLEAN WILLIAM
- [X] FR 1519822 A 19680405 - MECANIKES VERDOL SOC D
- [X] EP 0510829 A1 19921028 - RIETER SCRAGG LTD [GB]
- [A] EP 0834462 A2 19980408 - MURATA MACHINERY LTD [JP]
- [A] US 3397850 A 19680820 - ANDERSON JOHN C

Cited by

CN112429589A; CN101898705A; CN112499380A; CN113882043A; US11117737B2; US11858719B2

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