

Title (en)

YARN STORAGE AND DELIVERY APPARATUS

Publication

EP 0186511 A3 19870311 (EN)

Application

EP 85309471 A 19851223

Priority

JP 28010284 A 19841228

Abstract (en)

[origin: EP0186511A2] A yarn wrapping member (16) and a yarn winding drum (7) are rotated in opposite directions. Therefore, a yarn (21) fed to the yarn wrapping member (16) is wrapped around the yarn winding drum at a speed which corresponds to the sum of the rotative speeds of the yarn wrapping member (16) and yarn winding drum (7). The yarn (21) unwound from the yarn winding drum (7) is passed through the hollow portion of a main shaft (2) for delivery to the outside.

IPC 1-7

B65H 51/22

IPC 8 full level

D03D 47/36 (2006.01); **B65H 51/22** (2006.01)

CPC (source: EP)

D03D 47/361 (2013.01)

Citation (search report)

- [A] DD 99147 A5 19730720
- [A] DD 118046 A5 19760212
- [A] PATENT ABSTRACTS OF JAPAN, vol. 8, no. 170 (M-315)[1607], 7th August 1984; & JP - A - 59 64473 (KASUGA DENKI) 12-04-1984

Cited by

US4765556A; CN111929782A

Designated contracting state (EPC)

CH FR GB IT LI

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EP 0186511 A2 19860702; EP 0186511 A3 19870311; JP S61160457 A 19860721

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