

Title (en)
Multiple twister

Title (de)
Mehrfach-Zwirnmaschine

Title (fr)
Machine de torsion multiple

Publication
EP 0902107 B1 20030409 (EN)

Application
EP 98116045 A 19980825

Priority
JP 24362897 A 19970909

Abstract (en)
[origin: EP0902107A2] To prevent an end missing or a straight winding of a twisted yarn during stoppage by driving a traverse device and a drum by common driving means and synchronizing the traverse device with driving of the drum. A drum driving system B of a drum 9 rotating a winding package P is coupled with a traverse device 11 traversing the twisted yarn around the winding package P via a non-step transmission 14 so as to be driven by means of a common driving motor 5.

IPC 1-7
D01H 1/10; **B65H 54/38**; **D01H 1/34**

IPC 8 full level
B65H 54/28 (2006.01); **D01H 1/10** (2006.01); **D01H 1/20** (2006.01); **D01H 1/28** (2006.01); **D01H 1/36** (2006.01); **D01H 7/36** (2006.01); **D01H 7/86** (2006.01)

CPC (source: EP KR US)
D01H 1/10 (2013.01 - EP US); **D01H 1/20** (2013.01 - EP); **D01H 1/28** (2013.01 - EP US); **D01H 7/86** (2013.01 - KR)

Cited by
CN106149112A; CN104451974A; CN107034559A; CN109972431A

Designated contracting state (EPC)
DE FR IT

DOCDB simple family (publication)
EP 0902107 A2 19990317; **EP 0902107 A3 20000126**; **EP 0902107 B1 20030409**; CN 1210909 A 19990317; CN 1215208 C 20050817; DE 69813122 D1 20030515; DE 69813122 T2 20040311; JP H1181054 A 19990326; KR 100382401 B1 20030718; KR 19990029663 A 19990426

DOCDB simple family (application)
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