

Title (en)  
Individual-spindle-drive type multi-twister

Title (de)  
Mehrfach-Zwirnmaschine mit Einzelspindeltrieb

Title (fr)  
Machine de torsion multiple avec broche à entraînement individuel

Publication  
**EP 0952245 B1 20030108 (EN)**

Application  
**EP 99103544 A 19990224**

Priority  
• JP 8092898 A 19980327  
• JP 10601998 A 19980416

Abstract (en)  
[origin: EP0952245A1] To provide an inexpensive individual-spindle-drive type multi-twister that has a simple structure and can prevent malfunctions when used with fiber dust. The present invention relates to an individual-spindle-drive type multi-twister 1 that has a spindle drive motor 6 for every spindle 2 for twisting yarn and creates a winding package P from a yarn supply package 8 which is provided for each spindle 2. Each spindle drive motor 6 is driven by means of a rotation speed control apparatus 44. The twister 1 is characterized in that it comprises a yarn-run judgment means 44b to determine whether yarn is running from the state of each spindle drive motor 6, and a yarn length measuring means 44a for performing yarn length measurement using the yarn running signal of the yarn-run judgment means 44b. <IMAGE>

IPC 1-7  
**D01H 1/244**; **D01H 1/32**; **D01H 13/16**; **B65H 63/02**

IPC 8 full level  
**B65H 54/20** (2006.01); **B65H 63/08** (2006.01); **D01H 13/16** (2006.01); **D01H 13/24** (2006.01)

CPC (source: EP KR)  
**B65H 54/20** (2013.01 - EP); **B65H 63/08** (2013.01 - EP); **D01H 1/10** (2013.01 - KR); **D01H 1/14** (2013.01 - KR); **D01H 13/1616** (2013.01 - KR); **D01H 13/1633** (2013.01 - EP); **D01H 13/24** (2013.01 - EP); **D01H 13/32** (2013.01 - KR); **B65H 2701/31** (2013.01 - EP)

Cited by  
EP3995612A1; FR2867173A1; CN111676576A; WO2005092756A1

Designated contracting state (EPC)  
DE FR IT

DOCDB simple family (publication)  
**EP 0952245 A1 19991027**; **EP 0952245 B1 20030108**; CN 1234457 A 19991110; DE 69904771 D1 20030213; DE 69904771 T2 20031023; KR 19990078203 A 19991025

DOCDB simple family (application)  
**EP 99103544 A 19990224**; CN 99103244 A 19990326; DE 69904771 T 19990224; KR 19990010007 A 19990324