

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 0950735 A1 19991020 (EN)

Application
EP 99103897 A 19990301

Priority
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Abstract (en)
To provide an individual-spindle-drive type multi-twister capable of coping with various product types and small-lot productions. The present invention relates to an individual-spindle-drive type multi-twister 1 having a spindle drive motor 6 for every spindle 2 to apply a twist to a yarn Y. The multi-twister drives the spindle drive motors 6 by means of respective rotation speed control apparatuses 44, wherein the means for setting the rotation direction 36, 45, 46, 48 and 51 can freely set and change the rotation direction for each spindle drive motor 6. The multi-twister also contains switching means 44a for switching output to the spindle drive motor according to the set rotation direction, wherein the switching means 44a is provided at each of the rotation speed control apparatuses 44. <IMAGE>

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D01H 1/244; **D01H 7/86**

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CPC (source: EP KR)
D01H 1/244 (2013.01 - EP); **D01H 7/00** (2013.01 - KR); **D01H 7/86** (2013.01 - EP)

Citation (search report)
• [A] EP 0806501 A2 19971112 - HATTORI MOTONOBU [JP]
• [A] EP 0615010 A1 19940914 - HAMEL AG [CH]
• [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 013 (C - 0901) 14 January 1992 (1992-01-14)

Cited by
EP1178137A1; EP2226283A3

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