

Title (en)
Four-for-one twister

Title (de)
Vierfach-Zwirnmaschine

Title (fr)
Broche quadruple torsion

Publication
EP 0863234 A3 20000809 (EN)

Application
EP 97122447 A 19971218

Priority
• JP 3896297 A 19970224
• JP 4071997 A 19970225

Abstract (en)
[origin: EP0863234A2] A four-for-one twister that enables yarn to pass through easily and quickly, increasing operating efficiency. In four-for-one twister 21 which twists yarn by means of upper disk 23 in which yarn guide hole 47a is formed and lower disk 24 in which yarn guide hole 47b is formed rotating in the same plane in mutually opposed directions, air for passing the yarn is flowed through both yarn guide holes 47a and 47b in a forwardly moving direction. Yarn guide holes 47a and 47b are formed so as to be connected. Ejection nozzle 48 which injects air to pass the yarn opens into yarn guide hole 47 in a suitable place. Inner guiding member 39 which revolves around the outside of supply package P on upper disk 23 is provided, and yarn guide pipe 53 is provided in inner guiding member 39 connected to yarn guide hole 47a on upper disk 23.

IPC 1-7
D01H 7/88

IPC 8 full level
D01H 1/10 (2006.01); **D01H 7/86** (2006.01); **D01H 7/88** (2006.01)

CPC (source: EP)
D01H 1/105 (2013.01); **D01H 7/868** (2013.01); **D01H 7/88** (2013.01)

Citation (search report)
• [AD] JP S446685 B1
• [A] EP 0611841 A1 19940824 - TEIJIN SEIKI CO LTD [JP]
• [A] DE 29606150 U1 19960605 - SCHAEFFLER WAEZLAGER KG [DE]
• [A] US 4222221 A 19800916 - LENORAK FERDINAND
• [A] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 02 29 February 1996 (1996-02-29)
• [A] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 02 29 February 1996 (1996-02-29)

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DOCDB simple family (publication)
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DOCDB simple family (application)
EP 97122447 A 19971218; DE 69728855 T 19971218; DE 69739244 T 19971218; EP 04008829 A 19971218