

Title (en)

Multiple-twist spindle with rotating balloon limiting mantle

Title (de)

Mehrfachdraht-Zwirnspindel mit rotierendem Ballonbegrenzer

Title (fr)

Broche de retordage à torsion multiple avec un pot rotatif limitant le ballon

Publication

EP 0885989 A3 20000223 (DE)

Application

EP 98107106 A 19980418

Priority

DE 19726450 A 19970621

Abstract (en)

[origin: DE19726450C1] A novel twisted thread cord spindle includes a rotary disc (8). This has a thread guide channel connecting radially to the hollow spindle axis (7). It continues with a channel (11) turning the thread axially, its exit opening directed into the gap between the co-rotating ballooning limiter (12) and the internal spool carrier protector (25), which counter rotates to the limiter. This forms part of the spool carrier and its base (22). In original design, in the radially outer region of the base (22) of the spool carrier protector (25), below and with axial clearance from it, there is a thread interception ring (8.1) co-rotating with the limiter (12) and of which the outer diameter is less than that of the spool carrier protector.

IPC 1-7

D01H 7/86; **D01H 1/42**

IPC 8 full level

D01H 1/42 (2006.01); **D01H 7/18** (2006.01); **D01H 7/86** (2006.01)

CPC (source: EP US)

D01H 1/427 (2013.01 - EP US); **D01H 7/868** (2013.01 - EP US)

Citation (search report)

- [DA] EP 0615010 A1 19940914 - HAMEL AG [CH]
- [DA] US 3380240 A 19680430 - GUSTAV FRANZEN
- [A] FR 1577064 A 19690801

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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