

Title (en)

Four-for-one twisting spindle for twisting machines or similar

Title (de)

Vierfachdraht-Zwirnspindel für Zwirnmaschinen oder ähnliche Vorrichtungen

Title (fr)

Broche à retordre à quadruple torsion pour des métiers à retordre ou similaires

Publication

**EP 1726693 B1 20101006 (EN)**

Application

**EP 06113656 A 20060509**

Priority

IT MI20050974 A 20050526

Abstract (en)

[origin: EP1726693A2] The invention relates to a four-for-one twisting spindle for twisting machines of textile yarns, comprising a cylindrical basket (2), inside which a feeding bobbin (1) is supported, an upper rotating part (3) and a lower rotating part (4) which rotate in opposite directions to each other and define a first passage (6) and a second passage (9) of the yarn, respectively, along the run of the yarn, one of said upper rotating part (3) or said lower rotating part (4) being operated by external means for the transmission of the motion and transmitting the motion to the other rotating part through an epicycloidal transmission mechanism, wherein the planetary elements (16, 34) are arranged so as to form two crowns and transmit forces which are exerted between the components of said epicycloidal transmission device, along oblique force lines allowing the weight of the spindle to be transmitted from said upper rotating part (3) to said lower rotating part (4).

IPC 8 full level

**D01H 7/88** (2006.01)

CPC (source: EP US)

**D01H 7/88** (2013.01 - EP US)

Cited by

DE102014018038A1; EP3029185A1; DE102014018039A1; EP2028300A2; EP2028301A2; EP2366818A1; EP3029184A1

Designated contracting state (EPC)

CH DE IT LI TR

DOCDB simple family (publication)

**EP 1726693 A2 20061129; EP 1726693 A3 20080507; EP 1726693 B1 20101006**; CN 1869296 A 20061129; CN 1869296 B 20120919; DE 602006017293 D1 20101118; IT MI20050974 A1 20061127; US 2006277891 A1 20061214

DOCDB simple family (application)

**EP 06113656 A 20060509**; CN 200610087841 A 20060526; DE 602006017293 T 20060509; IT MI20050974 A 20050526; US 42987106 A 20060508