

Title (en)

Play-free and self centering bobbin coupling device for the spindle in a textile machine

Title (de)

Spießfreie und zentrierende Hülsekupplung für die Spindel einer Textilmaschine

Title (fr)

Dispositif d'accouplement sans jeu et autocentrant, pour la broche d'une machine textile

Publication

EP 1065304 B1 20030820 (DE)

Application

EP 00113460 A 20000626

Priority

DE 19929582 A 19990629

Abstract (en)

[origin: EP1065304A1] Yarn tubes are held on a textile machine spindle by a clutch comprising a body (1) attached to the spindle, a pressure sleeve (3) sliding on the spindle in a bearing (4), and an end piece (2). Two sets of components, e.g. balls (5,6), move radially in recesses with tapers (7,8) to give a centralizing action and grip the tube. As the yarn tube is placed over the coupling, balls (6) are pressed against a taper (7) and move the sleeve (3) axially upwards and at the same time centralize the tube. When the spindle begins to rotate, balls (5) are pressed against the taper (8) by centrifugal force and push the sleeve (3) downwards so that the balls (6) are forced against the tube wall and grip it.

IPC 1-7

D01H 7/16

IPC 8 full level

D01H 7/16 (2006.01)

CPC (source: EP US)

D01H 7/16 (2013.01 - EP US)

Cited by

CN111621882A; CN106757579A

Designated contracting state (EPC)

CH ES FR GB IT LI

DOCDB simple family (publication)

EP 1065304 A1 20010103; EP 1065304 B1 20030820; DE 19929582 A1 20010111; DE 19929582 C2 20020718; ES 2206110 T3 20040516; US 6367237 B1 20020409

DOCDB simple family (application)

EP 00113460 A 20000626; DE 19929582 A 19990629; ES 00113460 T 20000626; US 60287500 A 20000628