

Title (en)

APPARATUS FOR POSITIONING AND RETAINING A BOBBIN DURING YARN WINDING OR UNWINDING

Publication

EP 0250348 B1 19891011 (FR)

Application

EP 87420166 A 19870616

Priority

FR 8609053 A 19860619

Abstract (en)

[origin: US4765562A] This invention relates to a device (mandrel) serving as element for maintaining a cylindrical support tube around which yarn is wound. It is constituted by two elementary sleeves, mounted opposite each other on the drive shaft, said sleeves comprising peripheral fingers regularly spaced with respect to one another, the fingers of one sleeve abutting against the surface included between the fingers of the other sleeve. At least one of the elementary sleeves is mounted free in translation on the drive shaft and thrust means tend to maintain the two sleeves in spaced apart relationship with respect to each other, with the result that the ends of the fingers tend to move radially outward with respect to the axis of the mandrel and to firmly fix the cylindrical support tube disposed therearound.

IPC 1-7

B65H 54/54

IPC 8 full level

D01H 7/86 (2006.01); **B65H 54/54** (2006.01); **D01H 7/16** (2006.01)

CPC (source: EP US)

B65H 54/543 (2013.01 - EP US); **B65H 2701/31** (2013.01 - EP US)

Cited by

FR3101339A1

Designated contracting state (EPC)

BE CH DE ES GB IT LI

DOCDB simple family (publication)

EP 0250348 A1 19871223; **EP 0250348 B1 19891011**; DE 3760735 D1 19891116; ES 2011819 B3 19900216; FR 2600315 A1 19871224; FR 2600315 B1 19880812; JP H07107207 B2 19951115; JP S62299525 A 19871226; US 4765562 A 19880823

DOCDB simple family (application)

EP 87420166 A 19870616; DE 3760735 T 19870616; ES 87420166 T 19870616; FR 8609053 A 19860619; JP 15239587 A 19870618; US 5525987 A 19870529