

Title (en)  
WINDING CARRIER

Publication  
**EP 0201826 B1 19890906 (DE)**

Application  
**EP 86106099 A 19860503**

Priority  
DE 8514349 U 19850510

Abstract (en)  
[origin: US4702433A] A coil carrier whose shell may be rigid (3; 20) or axially and/or radially compressible (37), has an end ring (1) and an upper ring (2). The upper ring (2) is provided with an axially projecting collar (14) which can be fitted inside the end ring (1) of an adjacent coil carrier of identical construction, at the same time leaving room for a thread reserve which is provided on the collar (14) and thus accommodated in a protected manner, particularly if coil carriers of this kind are placed axially one above the other and the coils located thereon are compressed axially. The measure by which the collar (14) of one coil can be inserted in an axially adjacent coil carrier can be determined by shoulders (9, 13) and extensions (10, 15). This measure can be determined in such a way that a thread can be fed from the thread reserve to a package to be produced or already present on the coil carrier, without becoming jammed.

IPC 1-7  
**B65H 75/10**

IPC 8 full level  
**B65H 75/10** (2006.01); **B65H 75/28** (2006.01); **D06B 23/04** (2006.01)

CPC (source: EP US)  
**B65H 75/28** (2013.01 - EP US); **D06B 23/042** (2013.01 - EP US); **B65H 2701/31** (2013.01 - EP US); **B65H 2701/534** (2013.01 - EP US)

Cited by  
US5553811A; US6032890A; DE4219844A1; DE3909979A1; EP0389947A1; WO2008080392A2; DE102007001462A1; WO2008080392A3; WO9315013A1; EP0472507B1

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI NL

DOCDB simple family (publication)  
**US 4702433 A 19871027; US 4702433 B1 19970722**; AT E45332 T1 19890815; AT E46128 T1 19890915; DE 3664898 D1 19890914; DE 3665439 D1 19891012; DE 8514349 U1 19850718; EP 0201794 A2 19861120; EP 0201794 A3 19870826; EP 0201794 B1 19890809; EP 0201826 A2 19861120; EP 0201826 A3 19870805; EP 0201826 B1 19890906; EP 0201826 B2 19960103; ES 294244 U 19861016; ES 294244 Y 19870616; ES 294248 U 19870101; ES 294248 Y 19870816; GR 861212 B 19860910; GR 861213 B 19860910

DOCDB simple family (application)  
**US 86260186 A 19860509**; AT 86105848 T 19860428; AT 86106099 T 19860503; DE 3664898 T 19860428; DE 3665439 T 19860503; DE 8514349 U 19850510; EP 86105848 A 19860428; EP 86106099 A 19860503; ES 294244 U 19860508; ES 294248 U 19860509; GR 860101212 A 19860509; GR 860101213 A 19860509