

Title (en)
Winder mandrel

Title (de)
Rotierbares Tragelement

Title (fr)
Mandrin de bobinage

Publication
EP 1035062 A3 20010117 (DE)

Application
EP 00104864 A 20000307

Priority
DE 19910475 A 19990310

Abstract (en)
[origin: EP1035062A2] The casing(3) around the body of the rotatable support element has a relief section(7) extending around its circumference and which is formed by an area of lesser material thickness or by a material-free area. The area of reduced material thickness is formed by an outwards opened annular slot. The relief area is at least partially filled with a flexible substance(10) which may be dyed for identification purposes.

IPC 1-7
B65H 75/24

IPC 8 full level
B65H 75/24 (2006.01)

CPC (source: EP US)
B65H 18/02 (2013.01 - EP US)

Citation (search report)
• [A] US 2621867 A 19521216 - GRETTVE KARL E L
• [A] US 2711863 A 19550628 - LAGE GRETTVE KARL EINAR
• [A] US 3029037 A 19620410 - WILLIAMS ARTHUR T, et al

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 1035062 A2 20000913; EP 1035062 A3 20010117; DE 19910475 A1 20001012; DE 19910475 C2 20010613; US 6454204 B1 20020924

DOCDB simple family (application)
EP 00104864 A 20000307; DE 19910475 A 19990310; US 52006900 A 20000307