

Title (en)  
CYLINDRICAL CROSS-WOUND BOBBIN

Publication  
**EP 0173118 B1 19880420 (DE)**

Application  
**EP 85109799 A 19850805**

Priority  
• DE 3430504 A 19840818  
• DE 3442095 A 19841117

Abstract (en)  
[origin: US4659027A] A method and apparatus for winding textile yarns into core supported packages is disclosed, and which is characterized by the ability to produce relatively large packages which are adapted to permit a high speed unwinding by withdrawal of the yarn over one end of the package. The method and apparatus involves controlling the yarn traverse guide so as to include stroke modification cycles during which the traverse stroke is progressively contracted and then increased, with the stroke modification cycles being designed to produce a precisely cylindrical package end with a uniform distribution of hardness along the package. In one illustrated embodiment, a number of stroke modification cycles having a relatively large contraction alternate with a number of stroke modification cycles having a relatively small contraction. In addition, the speed of the yarn guide may be constantly accelerated and decelerated to avoid undesirable patterns, with the changes in speed being coordinated with the stroke modification cycles to provide a uniform yarn tension in the package.

IPC 1-7  
**B65H 55/04**; **B65H 54/06**; **B65H 54/32**

IPC 8 full level  
**B65H 54/06** (2006.01); **B65H 54/32** (2006.01); **B65H 55/04** (2006.01)

CPC (source: EP US)  
**B65H 54/06** (2013.01 - EP US); **B65H 54/32** (2013.01 - EP US); **B65H 55/04** (2013.01 - EP US); **B65H 2553/10** (2013.01 - EP US);  
**B65H 2555/12** (2013.01 - EP US); **B65H 2701/31** (2013.01 - EP US)

Cited by  
DE3505453A1; EP0524140A1; EP0206130A3; DE3545080A1; EP0235557A2

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

DOCDB simple family (publication)  
**EP 0173118 A2 19860305**; **EP 0173118 A3 19860813**; **EP 0173118 B1 19880420**; DE 3562216 D1 19880526; US 4659027 A 19870421

DOCDB simple family (application)  
**EP 85109799 A 19850805**; DE 3562216 T 19850805; US 76570985 A 19850814