

Title (en)  
CYLINDRICAL CROSS-WOUND BOBBIN

Publication  
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Application  
**EP 85109799 A 19850805**

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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.

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**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)

Citation (search report)  
• EP 0027173 B1 19840718  
• EP 0102849 A1 19840314 - TORAY INDUSTRIES [JP]  
• EP 0118173 A1 19840912 - CELANESE CORP [US]  
• DE 2617309 A1 19771027 - BAYER AG  
• DE 2855616 A1 19800626 - BARMAG BARMER MASCHF  
• DE 3210244 A1 19830922 - BARMAG BARMER MASCHF [DE]  
• DE 3219880 A1 19840216 - BARMAG BARMER MASCHF [DE]  
• DE 3240484 A1 19830601 - MURATA MACHINERY LTD [JP]  
• CH 549521 A 19740531 - TEIJIN LTD  
• US 4221344 A 19800909 - LOHEST HANS  
• DE 1916580 C3 19740228

Cited by  
DE3505453A1; EP0524140A1; EP0206130A3; DE3545080A1; EP0235557A2

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