

Title (en)

Traverse apparatus having rotating wings

Title (de)

Fadentraversiervorrichtung mit rotierenden Flügeln

Title (fr)

Mécanisme de va-et-vient à pales rotatives

Publication

EP 0965553 A3 20000823 (EN)

Application

EP 99108090 A 19990423

Priority

- JP 17143498 A 19980618
- JP 22173498 A 19980805

Abstract (en)

[origin: EP0965553A2] The invention provides a traverse apparatus having rotating wings which is capable of providing a well-formed cone-shaped package and therefor comprises two yarn guide rotating wings 10a and 10b that rotate in opposite directions, and elliptical driven gear 14 provided at the input section of the yarn guide rotating wings 10a and 10b, and an elliptical drive gear 16 engaged with the driven gear 14 and provided at the output section of a drive motor 21, wherein the yarn guide rotating wings 10a and 10b are pulsated and rotated by means of the gears 14 and 16 to change the traverse speed in the axial direction of a cone-shaped package 2, and the engagement of the gears 14 and 16 is set so that the traverse speed is fast on the shorter diameter side 2a of the package 2 and slow at the longer diameter side 2b of the package 2. The amount of yarn 1 wound is small on the shorter diameter side 2a and large on the longer diameter side 2b, thereby making it possible to provide a well-formed cone-shaped package 2. <IMAGE>

IPC 1-7

B65H 54/28

IPC 8 full level

B65H 49/00 (2006.01); **B65H 54/28** (2006.01)

CPC (source: EP KR)

B65H 49/00 (2013.01 - KR); **B65H 54/2839** (2013.01 - EP); **B65H 2701/31** (2013.01 - EP)

Citation (search report)

- [X] GB 191129054 A 19120822 - JOHN HETHERINGTON & SONS LTD, et al
- [AD] DE 4142886 A1 19920702 - MURATA MACHINERY LTD [JP]
- [A] EP 0808791 A2 19971126 - FREEMAN JAMES EDWARD [GB]
- [A] DE 4315912 A1 19931118 - BARMAG BARMER MASCHF [DE]

Cited by

CN112895185A; CN101544322A

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 0965553 A2 19991222; **EP 0965553 A3 20000823**; CN 1243799 A 20000209; KR 20000006191 A 20000125; TW 387854 B 20000421

DOCDB simple family (application)

EP 99108090 A 19990423; CN 99109169 A 19990618; KR 19990022266 A 19990615; TW 88101712 A 19990204