

Title (en)
YARN WINDER

Title (de)
GARNWICKLER

Title (fr)
BOBINOIR DE FIL

Publication
EP 2484621 A4 20130619 (EN)

Application
EP 10820661 A 20100930

Priority

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- JP 2009228888 A 20090930
- JP 2010067117 W 20100930

Abstract (en)
[origin: EP2484621A1] The enlargement of a balloon on the spun yarn unwound from the yarn storage section is restrained and broken filaments of the spun yarn are laid down. The upper end portion of a yarn storage drum 27 is shaped as a curved surface portion 65 which is circular curved surface narrowing in diameter toward the upper end side, and an annular component 66 is provided on the curved surface portion 65. The annular component 66 is made of an elastic material such as rubber and is a thin plate arranged so that the difference between the radius at the outer circumference and the radius at the inner circumference is longer than the thickness, and the end portion of the annular component 66 on the inner circumference side is elastically deformed along the curved surface portion 65 so as to surface-contact, in its entire circumference, the curved surface portion 65. A spun yarn Y unwound from the yarn storage drum 27 passes through the gap between the curved surface portion 65 and the annular component 66 and is then running toward the winding section. The spun yarn Y is therefore sandwiched between the curved surface portion 65 and the annular component 66.

IPC 8 full level
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CPC (source: EP)
B65H 51/22 (2013.01); **B65H 57/22** (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)

- [XY] DE 3116683 A1 19821118 - HACOPA TEXTILMASCHINEN [DE]
- [Y] US 4068807 A 19780117 - JACOBSSON KURT ARNE GUNNAR
- [Y] WO 0138216 A1 20010531 - TE STRAKE BV [NL], et al
- [YD] US 3314621 A 19670418 - KAREL BOUS
- [Y] JP H0542262 U 19930608
- [XY] EP 0004781 A1 19791017 - DU PONT CANADA [CA]
- [X] AT 236136 B 19641012 - SARFATI ALBERTO GUSTAVO [IT], et al
- [X] DE 4310951 A1 19941027 - ZINSER TEXTILMASCHINEN GMBH [DE]
- [X] DE 2907242 A1 19800904 - IRO AB
- See references of WO 2011040546A1

Cited by
EP2987755A1; EP2594516A4; WO2020254416A1

Designated contracting state (EPC)
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