

Title (en)  
YARN WINDER

Title (de)  
GARNWICKLER

Title (fr)  
BOBINOIR DE FIL

Publication  
**EP 2484618 A4 20130626 (EN)**

Application  
**EP 10820657 A 20100930**

Priority  
• JP 2009228787 A 20090930  
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Abstract (en)  
[origin: EP2484618A1] In an yarn winder, a yarn is seamlessly wound without interruption. An accumulator 61 is provided with six rollers 71 that are provided on a circle and are inclined with respect to the vertical direction. As a winding arm 75 rotates around the six rollers 71, the yarn is wound onto the lower end portions of the rollers 71. As the winding arm 75 rotates in the opposite direction, the yarn Y wound on the rollers 71 is drawn out. The yarn Y wound on the rollers 71 is transported upward by five drive rollers 71a to 71e out of the six rollers 71. The remaining one adjusting roller 71f is a driven roller and is arranged so that the upper end portion thereof is inclined with respect to the vertical direction to be on a virtual circle A3 which is outside the virtual circle A1 on which the upper end portions of the other rollers 71a to 71e are positioned. With this, the circumferential length of the yarn Y wound on the rollers 71 is kept constant.

IPC 8 full level  
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CPC (source: EP)  
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Citation (search report)  
• [YA] DE 3116683 A1 19821118 - HACOPA TEXTILMASCHINEN [DE]  
• [Y] US 4766937 A 19880830 - KOJIMA SHUICHI [JP], et al  
• [Y] DE 2056593 A1 19720615  
• [Y] DE 2553892 A1 19770602 - SKF KUGELLAGERFABRIKEN GMBH  
• [Y] JP H0542262 U 19930608  
• [X] CH 154778 A 19320531 - JUNKERS ADOLF HEINRICH [DE]  
• [X] NL 7210321 A 19730130  
• [Y] JP S4715733 U 19721024  
• [Y] DE 19535747 A1 19960425 - BARMAG BARMER MASCHF [DE]  
• [A] DE 2000840 A1 19720217 - ROSEN KARL I J [SE]  
• [A] DE 1084798 B 19600707 - SIEMENS AG  
• [A] JP S6026465 U 19850222  
• [A] DE 3415447 A1 19850110 - VYZK USTAV BAVLNARSKY [CS]  
• [A] EP 1764333 A2 20070321 - ZAMATTIO SERGIO [IT]  
• See references of WO 2011040542A1

Cited by  
EP2684826A4

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DOCDB simple family (application)  
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