

Title (en)

Automatic winder and hairiness suppressing device

Title (de)

Spülautomat und Vorrichtung zur Unterdrückung der Garnhaarigkeit

Title (fr)

Bobinoir automatique et dispositif pour supprimer la quantité de fibres saillantes d'un fil

Publication

EP 1146002 A3 20030402 (EN)

Application

EP 01108877 A 20010409

Priority

- JP 2000115881 A 20000412
- JP 2000253989 A 20000824

Abstract (en)

[origin: EP1146002A2] The present invention provides an automatic winder having a hairiness suppressing device that can stably provide a function of suppressing hairinesses of a spun yarn. The present invention provides an automatic winder comprising a hairiness suppressing device 1 including nozzle means 2 having a yarn passage 7 for allowing a spun yarn Y to pass therethrough, the nozzle means twisting the spun yarn Y by means of a whirling current obtained by injecting a gas through the yarn passage 7, wherein tension control means is provided for controlling tension of the spun yarn Y supplied to the nozzle means 2 at a substantially constant value (Fig. 1). <IMAGE>

IPC 1-7

B65H 54/70; D01H 1/115; B65H 59/10; B65H 59/28; D02J 1/08; D02J 1/14; D01H 7/92

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [PX] EP 1013803 A2 20000628 - MURATA MACHINERY LTD [JP]
- [A] US 5351472 A 19941004 - OHASHI KENJI [JP]
- [A] GB 2085040 A 19820421 - DU PONT
- [A] DD 95904 A1 19730220
- [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 165 (M - 1238) 21 April 1992 (1992-04-21)

Cited by

CN112267183A; CN113023489A; CN115196425A; CN110255289A; CN113247701A; US2022403562A1; EP3753886A1; IT201900009687A1; CN115506064A

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