

Title (en)

YARN-FEEDING DEVICE FOR AN AUTOMATIC WINDING MACHINE

Publication

EP 0374406 B1 19930616 (DE)

Application

EP 89119096 A 19891013

Priority

DE 3843553 A 19881223

Abstract (en)

[origin: EP0374406A1] The auxiliary unwinding apparatus of the device (3) has a divided sleeve (50) surrounding the cop (35) to be unwound, the sleeve parts (50a, 50b) of which sleeve can be moved away when the cop is changed and which are preferably provided with blower jets (51, 52, 53) directed tangentially and simultaneously obliquely upwards. The cop changing apparatus (32; 32') of the device (3) advantageously has a support surface (70) continuously moving in a straight line below the sleeve (50) for individual cop carriers (38 to 40) which can be arranged in rows. Arranged at the top end of the sleeve (50) above the tip of the tube of the cop (35) is a pull-off accelerator constructed as a thread catcher.
<IMAGE>

IPC 1-7

B65H 67/08

IPC 8 full level

B65H 57/22 (2006.01); **B65H 67/06** (2006.01); **B65H 67/08** (2006.01)

CPC (source: EP US)

B65H 57/22 (2013.01 - EP US); **B65H 67/06** (2013.01 - EP US); **B65H 67/083** (2013.01 - EP US); **B65H 2701/31** (2013.01 - EP US)

Cited by

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EP 0374406 A1 19900627; **EP 0374406 B1 19930616**; DE 3843553 A1 19900705; DE 58902420 D1 19921112; DE 58903117 D1 19930204; DE 58904728 D1 19930722; DE 58904729 D1 19930722; EP 0374403 A1 19900627; EP 0374403 B1 19921007; EP 0374404 A1 19900627; EP 0374404 B1 19930616; EP 0374405 A1 19900627; EP 0374405 B1 19921223; ES 2035495 T3 19930416; ES 2037933 T3 19930701; ES 2041937 T3 19931201; JP 2779023 B2 19980723; JP H02193874 A 19900731; JP H02193875 A 19900731; JP H02215660 A 19900828; JP H02215661 A 19900828; US 5024389 A 19910618; US 5035371 A 19910730; US 5044572 A 19910903; US 5056726 A 19911015

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