

Title (en)

Procedure and device for piecing a yarn in an open-end spinning machine

Title (de)

Verfahren und Vorrichtung zum Anspinnen eines Fadens in einer Offenend-Spinnvorrichtung

Title (fr)

Procédé et dispositif pour rattacher un fil dans un métier à filer à bout libre

Publication

EP 1445360 B1 20060920 (DE)

Application

EP 03027982 A 20031205

Priority

DE 10304729 A 20030206

Abstract (en)

[origin: EP1445360A2] In preparation to automatic piecing of the end (E) of yarn (F) from a package (S) to a rotor spinning unit (10), a loop of yarn (G) is formed between assisting roller pairs (20, 21) by reversing rotation and is held pneumatically. At the moment of piecing the lower roller pair (20) releases the yarn and the loop (G) provides a length of yarn that is drawn rapidly into the spinning unit. An independent claim is also included for a piecing arrangement, e.g. an automatic travelling service unit (2) with two pairs of assisting rollers (20, 21) and a storage device (23) located between them. The device (23) is preferably a pneumatic suction tube, but can be mechanical, e.g. a dancer arm, or electro-mechanical. The sequence of roller (20, 21) and suction valve (40) operation is under the control of a computer (3) according to the required process conditions.

IPC 8 full level

D01H 4/48 (2006.01); **D01H 4/50** (2006.01)

CPC (source: EP US)

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Cited by

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EP 1445360 A2 20040811; **EP 1445360 A3 20050406**; **EP 1445360 B1 20060920**; DE 10304729 A1 20040819; DE 50305105 D1 20061102; US 2005016156 A1 20050127; US 7036300 B2 20060502

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