

Title (en)

Device for gripping the underwinding yarn for a ring spinning frame

Title (de)

Vorrichtung zum Greifen von einem unterwundenen Faden in einer Ringspinnmaschine

Title (fr)

Dispositif pour saisir un fil sous-renvidé dans un métier à filer à anneaux

Publication

EP 1696058 A3 20070627 (EN)

Application

EP 06114231 A 20030513

Priority

EP 03425305 A 20030513

Abstract (en)

[origin: EP1696058A2] A device for gripping the underwinding yarn for a ring spinning frame comprises a collar (14) fixed to the spindle (2), a sleeve (24) able to slide axially and a bar (40) supported by a pair of pneumatic actuators. The support axis (Z-Z) of the bar (40), defined by the points where the bar is supported by the actuators (70a,70b), intersects the active portions (42) of the bar (40) that engage with the sleeve (24) in order to stiffen the bar (40), and simultaneously open the sleeves (24) of the spindles of the spinning frame. The engagement portions (70a,70b) of the bar (40) that engage with the actuators are longitudinally separated from its active portions (42) in order to make the spinning frame compact and make the presence of the actuators compatible with the wharves (10) of the spindles (2) and with the drive means by which they are turned. The bar (40) moves vertically in order to engage/disengage the spindle (2).

IPC 8 full level

D01H 1/38 (2006.01)

CPC (source: EP)

D01H 1/38 (2013.01)

Citation (search report)

- [DYA] DE 19816205 A1 19991014 - ZINSER TEXTILMASCHINEN GMBH [DE]
- [DYA] EP 0775769 A1 19970528 - ZINSER TEXTILMASCHINEN GMBH [DE]
- [A] CH 290235 A 19530430 - TMM RESEARCH LTD [GB]

Cited by

CN104018259A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1477594 A1 20041117; EP 1477594 B1 20080716; AT E401439 T1 20080815; DE 60322189 D1 20080828; DE 60325284 D1 20090122; EP 1696058 A2 20060830; EP 1696058 A3 20070627; EP 1696058 B1 20081210

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EP 03425305 A 20030513; AT 03425305 T 20030513; DE 60322189 T 20030513; DE 60325284 T 20030513; EP 06114231 A 20030513