

Title (en)

YARN LIFTING ARRANGEMENT FOR PIECING UNIT AND A METHOD THEREOF

Title (de)

GARNHEBEVORRICHTUNG FÜR EINE ANSPINNVERRICHTUNG UND VERFAHREN DAFÜR

Title (fr)

DISPOSITIF DE LEVÉE DE FIL POUR UNITÉ DE RATTACHAGE ET PROCÉDÉ ASSOCIÉ

Publication

EP 3556918 A1 20191023 (EN)

Application

EP 19168570 A 20190411

Priority

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Abstract (en)

The present invention relates to broken yarn lifting arrangement to detach the broken yarn end from the spinning cop to enable automatic piecing operation in textile ring spinning machines. Accordingly, yarn lifting arrangement, comprising of a base plate having a first end and a second end. The first end connected to an actuating means provides the base plate working position in the forward motion and home position in the backward motion. The second end is a free end having an opening near to the free end configured to encircle a cop of a spindle in the working position. Said arrangement further comprises plurality of jet members with plurality of orifices configured to position around the contour of the opening, supplying air current in the working position to detach the tangled yarn end from the spinning cop and to lift the yarn upwards towards the drafting zone to enable effective automatic yarn piecing in the textile machine.

IPC 8 full level

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CPC (source: CN EP)

B65H 67/083 (2013.01 - EP); **D01H 15/00** (2013.01 - CN EP); **B65H 2701/31** (2013.01 - EP)

Citation (search report)

- [Y] DE 3924285 A1 19910131 - ZINSER TEXTILMASCHINEN GMBH [DE]
- [Y] US 4132057 A 19790102 - WEISS HELMUT, et al
- [A] DE 19536758 A1 19970403 - SCHLAFHORST & CO W [DE]
- [A] DE 19501464 C1 19960523 - ZINSER TEXTILMASCHINEN GMBH [DE]
- [A] US 4565062 A 19860121 - NICKOLAY HELMUT [DE]
- [A] DE 102015007820 A1 20161222 - SAURER GERMANY GMBH & CO KG [DE]

Cited by

EP4249655A1; EP3981898A1

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