

Title (en)

Yarn slack eliminating device and textile machine including the same

Title (de)

Vorrichtung zur Beseitigung von Fadenlockerungen und damit ausgestattete Spinnmaschine

Title (fr)

Dispositif d'élimination du relâchement des fils et machine textile incluant un tel dispositif

Publication

EP 2189557 B1 20150722 (EN)

Application

EP 09171582 A 20090929

Priority

JP 2008261853 A 20081008

Abstract (en)

[origin: EP2189557A1] A yarn slack eliminating device includes a roller 42. A winding range 60 of the roller 42 around which a yarn is wound is formed in a taper shape in which a diameter decreases from an upstream side where the yarn starts to be wound around towards a downstream side. The winding range 60 includes a first taper section 62 and a second taper section 63, and a taper angle becomes moderate towards the downstream side in two stages at the first taper section 62 and the second taper section 63. An area of the first taper section 62 having a large taper angle is smaller than an area of the second taper section 63 having a small taper angle (Fig. 4).

IPC 8 full level

D01H 4/48 (2006.01); **D01H 13/10** (2006.01)

CPC (source: EP)

B65H 51/22 (2013.01); **D01H 13/10** (2013.01); **B65H 2701/31** (2013.01)

Citation (examination)

- GB 2143856 A 19850220 - MEMMINGER GMBH
- US 4407336 A 19831004 - STEINER ALOIS [CH]
- GB 2169927 A 19860723 - SIPRA PATENT BETEILIGUNG
- JP S6335854 A 19880216 - TOYODA AUTOMATIC LOOM WORKS

Cited by

EP2365115A1; US9850090B2

Designated contracting state (EPC)

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