

Title (en)
Thread-end cutting method and thread-end cutting apparatus for spinning machine

Title (de)
Fadenendeschnidverfahren und Fadenendeschnidvorrichtung für Spinnmaschinen

Title (fr)
Procédé et dispositif pour couper l'extrémité d'un fil pour des métiers à filer

Publication
EP 1213381 A3 20030129 (EN)

Application
EP 01128446 A 20011205

Priority
JP 2000372801 A 20001207

Abstract (en)
[origin: EP1213381A2] In a thread-end cutting method in a spinning machine, a thread-end cutting member (8) provided with a bobbin inserting portion (9) and a cutter portion (10) is disposed so as to be raised and lowered with respect to a blade (5a) extending upward from a spindle base portion (5b). The thread-end cutting member is always biased to the spindle base portion (5b) by a coil spring (11). During suspension of doffing, a ring rail stops at a portion in the vicinity of an abutting portion between the thread-end cutting member (8) and the spindle base portion (5b). At a position slightly lower than the abutting portion, the spindle stops while the yarn is wound by about one roll or less. Then, bobbin yarn is pulled up by a doffing device, and the thread-end cutting member (8) is raised up to the middle of pulling together with the bobbin yarn, whereby yarn connected from the bobbin yarn to the traveler is guided between the thread-end cutting member (8) and the spindle base portion (5b). Thereafter, the yarn is grasped between the thread-end cutting member (8) having come off from the bobbin yarn and the spindle base portion, and the yarn is cut by the cutter portion.

IPC 1-7
D01H 1/38; **D01H 9/16**

IPC 8 full level
D01H 1/38 (2006.01); **D01H 9/14** (2006.01); **D01H 9/16** (2006.01)

CPC (source: EP KR)
D01H 1/38 (2013.01 - EP); **D01H 9/16** (2013.01 - EP KR)

Citation (search report)
• [A] GB 1209810 A 19701021 - ZINSER TEXTILMASCHINEN GMBH [DE]
• [A] EP 0949366 A2 19991013 - ZINSER TEXTILMASCHINEN GMBH [DE]
• [DA] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 18 5 June 2001 (2001-06-05)

Cited by
EP1477596A3; EP1477597A3; EP3677712A1; EP1477597A2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1213381 A2 20020612; **EP 1213381 A3 20030129**; **EP 1213381 B1 20060906**; CN 1265041 C 20060719; CN 1357657 A 20020710; DE 60122850 D1 20061019; DE 60122850 T2 20070412; JP 2002173837 A 20020621; JP 4284863 B2 20090624; KR 100436461 B1 20040622; KR 20020045514 A 20020619; TW 507030 B 20021021

DOCDB simple family (application)
EP 01128446 A 20011205; CN 01143525 A 20011207; DE 60122850 T 20011205; JP 2000372801 A 20001207; KR 20010067186 A 20011030; TW 90126369 A 20011025