Title (en)

Methode and device for spinning a yarn out of tearable filaments

Title (de)

Verfahren und Vorrichtung zum Spinnen eines Garnes aus reissfähigen Filamenten

Title (fr)

Procédé et dispositif pour filer un fil en filaments déchirables

Publication

EP 1205587 A2 20020515 (DE)

Application

EP 01126468 A 20011109

Priority

CH 21882000 A 20001110

Abstract (en)

A process manufactures staple fibre yarn with a bundle of breakable fibres converted into a sliver. The sliver is especially converted to yarn by a spinning assembly employing real twist at a speed greater than 50 m/min. Also claimed is a spinning assembly in which a prior art ring spindle is replaced by an air spinner or rotor spinner. The spinning machine generates a real twist at a feed speed greater than 100 m/min using either frictional spinning, a cap spinning machine, rotor spinning, or air spinning with or without false twist generation. Each spinning point has a separator forming staple fibres. Each separator has the means to spread bundled filaments, extend the spread bundle, and localise break points. The sliver is compressed at least in part by pneumatic power.

Abstract (de)

In einem Direktspinnverfahren wird die bekannte Ringspindel C durch ein moderneres Spinnaggregat, beispielsweise ein Luftspinnaggregat (Fig. 4) oder ein Rotorspinnaggregat (Fig. 5) ersetzt. Durch die Kombination mit modernen Sensorik- und Antriebskonzepte (Fig 7) kann das System weitgehend (z.B. bezüglich periodischen Massenschwankungen) selbstkorrigierend gestaltet werden. <IMAGE>

IPC 1-7

D01H 5/30

IPC 8 full level

D01H 4/02 (2006.01); **D01H 4/04** (2006.01); **D01H 5/30** (2006.01)

CPC (source: EP)

D01H 4/02 (2013.01); **D01H 4/04** (2013.01); **D01H 5/30** (2013.01)

Cited by

EP1522614A1; EP1522613A1; KR100870194B1; CN103526352A; EP2682509A3; CN111218739A; CN114481395A; US7188462B2; WO2007059510A2; WO2006020404A1; EP1963039A4

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 1205587 A2 20020515; **EP 1205587 A3 20021211**

DOCDB simple family (application)

EP 01126468 A 20011109