

Title (en)
Open-end spinning device

Title (de)
Offenend-Spinnvorrichtung

Title (fr)
Métiers à filer à bout libre

Publication
EP 1188850 A3 20020925 (DE)

Application
EP 01118193 A 20010727

Priority
• DE 10045918 A 20000916
• DE 10129132 A 20010616

Abstract (en)
[origin: EP1188850A2] The open-end spinner has a sliver loosening unit (4) in an easily-released mounting at the connecting bracket (30) of its straight guide (3), at the spinning box housing (2). A sliver loosening roller (12), to break the sliver down into fibers, is within the sliver loosening unit with its own motor together with the sliver take-in cylinder (14) powered by a step motor (15). The sliver loosening unit is mounted to pivot on a swing axis in a guide slit at the mounting bracket, which is open to the front, held in place by a sprung locking bolt which slides within a drilling at the sliver loosening unit body. A second straight guide (70) is at the mounting bracket, with guide bolts (63) which fit into guide drillings (69) at the mounting body (71) of the sliver loosening unit. At least one guide bolt has a locking groove (66), to be engaged by manual locking levers (64) riding in vertical guide slits (65) near the guide drillings at the mounting body. A spring at the locking lever holds it in the engaged position. An electromotor (13) with an outer rotor drives the sliver loosening roller. A coupling plate (34) links the power supply lines (35-38) at the mounting bracket, working with a coupling (45) at the sliver loosening unit. A centering unit (46) is between the mounting bracket and the bearing pedestal (26) at the bearing assembly (5) for the spinning rotor, with at least one centering component (47) as a key holder. A static funnel (39) to catch dirt, and its pneumatic waste disposal system (40), are located under the sliver loosening unit. The spinning rotor (7) is powered by a single electromotor drive (6). The axis (48) of the sliver loosening roller and the axis (49) of the sliver take-in roller are orthogonal to the axis (50) of the spinning rotor.

IPC 1-7
D01H 4/08; **D01H 4/32**; **D01H 1/16**

IPC 8 full level
D01H 4/08 (2006.01); **D01H 1/16** (2006.01); **D01H 4/14** (2006.01)

CPC (source: EP US)
D01H 1/16 (2013.01 - EP US); **D01H 4/14** (2013.01 - EP US)

Citation (search report)
• [DA] DE 2327347 A1 19741219 - STAHLLECKER FRITZ, et al
• [DA] DE 4323213 A1 19950119 - SCHLAFHORST & CO W [DE]
• [DA] DE 4309947 A1 19940929 - SCHLAFHORST & CO W [DE]
• [A] DE 4309704 C1 19940721 - RIETER INGOLSTADT SPINNEREI [DE]
• [A] DE 2340029 A1 19750220 - ZINSER TEXTILMASCHINEN GMBH

Cited by
US6668536B2; EP3351664A1; JP2004169264A; EP1422323A3; DE102017104141A1; CN108505157A; EP3751029A1; US7377095B2; WO2005121421A1; WO2005033385A1; US7257938B2; US7225605B2

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 1188850 A2 20020320; **EP 1188850 A3 20020925**; CZ 20013299 A3 20020417; US 2002033013 A1 20020321; US 6668536 B2 20031230

DOCDB simple family (application)
EP 01118193 A 20010727; CZ 20013299 A 20010912; US 95434601 A 20010917