

Title (en)
SPINNING MACHINE HAVING A COMPACTION DEVICE

Title (de)
SPINNMASCHINE MIT EINER VERDICHTUNGSVORRICHTUNG

Title (fr)
MACHINE À FILER DOTÉE D'UN DISPOSITIF DE COMPRESSION

Publication
EP 2737116 A1 20140604 (DE)

Application
EP 12735432 A 20120629

Priority
• CH 12412011 A 20110725
• CH 2012000144 W 20120629

Abstract (en)
[origin: WO2013013330A1] The invention relates to a device for compacting a sliver (V) on a spinning machine, comprising a drafting unit (2) having successive drafting roller pairs (3, 4; 5, 6; 7, 8), the top rollers (4, 6, 8) of which are anchored on a pressure lever (10) pivotally mounted on the machine frame (MR), and comprising a compaction unit (VM) pivotally mounted on the machine frame (MR) adjacent to the delivery roller pair (7, 8) of the drafting unit (2). The pivot axis (MA) of the compaction unit runs parallel to and spaced apart from the axes of rotation (7a, 8a) of the delivery roller pair (7, 8), and the compaction unit comprises a support (20) on which at least one suction drum (17) provided with a suction zone (Z) is rotatably mounted. A respective nip roll (33) fastened to the support (20) bears against the suction drum (17) under the influence of a pressure element (F2) in order to form a nip line (P) at the end of the suction zone (Z). In order to form a drive connection between the bottom roller (7) of the delivery roller pair (7, 8) and the suction drum (17), at least one spring element (F1, 55; 68) acts on the support (20) at a distance from the pivot axis (MA) thereof, as a result of which the suction drum (17) is moved towards the bottom roller (7) of the delivery roller pair (7, 8). In order to improve known solutions, according to the invention guide means (30) are provided in the region of the pivot axis (MA) of the support (20) of the compaction unit (VM), via which guide means the compaction unit, viewed in the direction of the pivot axis (MA) thereof, is fixed in the mounted position thereof on the machine frame (MR), and the spring element (F1, 55; 68) is mounted at the free end of the pressure lever (10).

IPC 8 full level
D01H 1/02 (2006.01); **D01H 5/72** (2006.01); **D01H 5/74** (2006.01); **D01H 5/86** (2006.01)

CPC (source: EP US)
D01H 1/025 (2013.01 - EP US); **D01H 5/72** (2013.01 - EP US); **D01H 5/74** (2013.01 - US); **D01H 5/86** (2013.01 - US)

Citation (search report)
See references of WO 2013013330A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2013013330 A1 20130131; CH 705307 A1 20130131; CN 103687985 A 20140326; CN 103687985 B 20170524; EP 2737116 A1 20140604; EP 2737116 B1 20150729; JP 2014521845 A 20140828; JP 6116562 B2 20170419; US 2014157749 A1 20140612; US 9353464 B2 20160531

DOCDB simple family (application)
CH 2012000144 W 20120629; CH 12412011 A 20110725; CN 201280037096 A 20120629; EP 12735432 A 20120629; JP 2014521889 A 20120629; US 201214234782 A 20120629