

Title (en)
Method for automatically separating rovings during doffing on a roving frame

Title (de)
Verfahren zum selbsttätigen Trennen von Vorgarn beim Abziehen von Spulen an einer Vorspinnmaschine

Title (fr)
Méthode pour séparer automatiquement la mèche pendant l'enlèvement dans un banc à broches

Publication
EP 1123996 A1 20010816 (DE)

Application
EP 01100618 A 20010111

Priority
DE 10001351 A 20000114

Abstract (en)
[origin: DE10001351A1] To sever the roving (2) automatically when the bobbin (1) is doffed at the roving frame, the roving (2) is fed as far as a press finger plank (10) where the roving is severed between the press finger plank and the outer surface of the wound bobbin. The roving is wound into at least a half-coil (6) and a roving reserve (A-D) over the winding (15) around the bobbin (1). The roving reserve (A-D) is unwound by reversing the bobbin (1) rotation. The press finger plank (10) is moved across the bobbin circumference by a given amount, and the roving (2) is severed at the weak point (C) by the movement of the press finger plank. The coils (6) of roving (2) over the windings (15) on the bobbin (1) are wound around the bobbin sleeve (3). The roving reserves are in three sections (A-D) with a length of roving from the upper edge (A) of the wound cone (12) of the bobbin winding (15) to the lower edge (B) of the cone (12). A roving length is between the lower edge (B) of the end cone (12) to the anticipated weak point (C). A length of roving runs to a point (D) which is the roving length remaining after separation by the press finger plank (10). On reversing the rotation of the bobbin (1), a false twist is developed with a raised number of twists in the first length (A-B) and a reduced twist count in the remaining lengths (B-D). On moving the press finger plank (10) into place, the roving length in the second and third sections (B-D) is equal to the yarn length from the start of the second section (B) to the press finger plank position. The third section between the end of the second length and the press finger plank position is stabilized by a twist increase which also sets its length. The press finger plank is advanced into the roving weak position (C) to sever the roving (2).

Abstract (de)
Die Erfindung bezieht sich auf ein Verfahren zum selbsttätigen Trennen von Vorgarn 2 beim Abziehen von Spulen 1 an einer Vorspinnmaschine, mit Zuliefern eines Vorgarns 2 bis zu einer Pressfingerpritsche 10 und Trennen des Vorgarns 2 zwischen der Pressfingerpritsche 10 und dem Spulenumfang. Es werden erfindungsgemäß folgende Verfahrensschritte angewendet: Erzeugen von mindestens einer halben Windung 6 des Vorgarns 2 und einer Vorgarnreserve A bis D oberhalb der Bewicklung 15 der Spule, Abwickeln der Vorgarnreserve A bis D durch Rückdrehen der Spule 1, Bewegen der Pressfingerpritsche 10 um einen bestimmten Betrag entlang des Spulenumfangs und Ziehen und Trennen der Vorgarn 2 im Bereich einer Schwachstelle C durch Bewegen der Pressfingerpritsche 10. <IMAGE>

IPC 1-7
D01H 9/16; **D01H 9/14**

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

CPC (source: EP US)
D01H 9/14 (2013.01 - EP US); **D01H 9/16** (2013.01 - EP US)

Citation (search report)
• [X] DE 19512578 A1 19961010 - GROSENHAINER TEXTILMASCHBAU [DE]
• [A] DE 3931124 A1 19910328 - ZINSEK TEXTILMASCHINEN GMBH [DE]
• [DA] DE 19631756 A1 19980212 - ZINSEK TEXTILMASCHINEN GMBH [DE]

Designated contracting state (EPC)
CH DE IT LI

DOCDB simple family (publication)
DE 10001351 A1 20010719; DE 50101157 D1 20040129; EP 1123996 A1 20010816; EP 1123996 B1 20031217; JP 2001226837 A 20010821; US 2001011451 A1 20010809; US 6418705 B2 20020716

DOCDB simple family (application)
DE 10001351 A 20000114; DE 50101157 T 20010111; EP 01100618 A 20010111; JP 2001002917 A 20010110; US 76021801 A 20010111