

Title (en)
DEVICE ON A COMBING MACHINE, COMPRISING A DRIVE DEVICE FOR PRODUCING A "PILGRIM STEP" MOTION FOR THE DETACHING ROLLERS

Title (de)
VORRICHTUNG AN EINER KÄMMMASCHINE MIT EINER ANTRIEBSVORRICHTUNG ZUR ERZEUGUNG EINER PILGERSCHRITTBEWEGUNG FÜR DIE ABREISSWALZEN

Title (fr)
DISPOSITIF SUR PEIGNEUSE COMPRENANT UN DISPOSITIF D'ENTRAÎNEMENT DESTINÉ À PRODUIRE UN MOUVEMENT À PAS DE PÈLERIN POUR CYLINDRES DE SÉPARATION

Publication
EP 2855750 A1 20150408 (DE)

Application
EP 13711286 A 20130305

Priority
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Abstract (en)
[origin: WO2013182260A1] The invention relates to a device on a combing machine, comprising a drive device for producing a "pilgrim step" motion for the detaching rollers of said combing machine, said device comprising a first electric motor that rotates with a uniform motion and a second electric motor which rotates a shaft, the second shaft carrying components for transmitting the motion to the detaching rollers. The first electric motor also acts on some of the components of the control gearing which transmits the motion to the detaching rollers, and the second motor is equipped with operating means which are subject to a unidirectional law of motion with acceleration and deceleration phases. Both the first and the second motor are in engagement at all times and rotate continuously in the same direction, and their rotational motions are combined by a differential device to obtain a resulting "pilgrim step" type motion on the detaching rollers. To allow an increase in the degree of freedom in the form of the motion curve of the detaching rollers, as well as greater combing machine efficiency, the second electric motor is a servomotor which transforms a uniform motion of the first electric motor into a non-uniform rotational motion, and which is connected to an electronic control and/or regulation device.

IPC 8 full level
D01G 19/26 (2006.01)

CPC (source: EP)
D01G 19/26 (2013.01)

Citation (search report)
See references of WO 2013182260A1

Citation (examination)
• DE 19527950 A1 19970206 - CHEMNITZER SPINNEREIMASCHINEN [DE]
• DE 102006002390 A1 20070719 - RIETER AG MASCHF [CH]
• EP 2444534 A1 20120425 - TOYOTA JIDOSHOKKI KK [JP]
• DE 19523949 A1 19960215 - CHEMNITZER SPINNEREIMASCHINEN [DE]
• DE 19612808 A1 19971009 - CETEX CHEMNITZER TEXTILMASCHIN [DE]
• CN 101660227 A 20100303 - SHANGHAI TEXTILE MACHINERY COM
• CN 201406499 Y 20100217 - SHANGHAI TEXTILE MACHINERY COMPLEX PLANT

Designated contracting state (EPC)
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