

Title (en)
COMBING MACHINE AND METHOD FOR OPERATING A COMBING MACHINE

Title (de)
KÄMMMASCHINE UND VERFAHREN ZUM BETRIEB EINER KÄMMMASCHINE

Title (fr)
PEIGNEUSE ET PROCÉDÉ DE FONCTIONNEMENT D'UNE PEIGNEUSE

Publication
EP 4284970 A1 20231206 (DE)

Application
EP 21798980 A 20211021

Priority
• DE 102021101809 A 20210127
• EP 2021079186 W 20211021

Abstract (en)
[origin: WO2022161652A1] The invention relates to a combing machine and a method for combing fibres, comprising a combing machine having a plurality of combing heads (20), wherein at least one lap strip (4) unwinds from a lap roll (1) at each combing head (20) and is fed to a feed cylinder (7) and a nipper assembly (5), the noils are combed and removed by suction from the lap strip (4) by means of a fixed and cylindrical comb (9, 8), and the fibre web created is formed by means of a trumpet (15) into a fibre strip, which is drawn with the other fibre strips from the other combing heads to a single fibre strip. The invention is characterized in that a first pair of draw-off rollers (10, 12) and a second pair of draw-off rollers (11, 13) are arranged downstream of the nipper assembly (5), wherein the first pair of draw-off rollers (10, 12) is designed to execute a back and forth rotary movement for a process of joining and tearing off a fibre fringe to or from a fibre web (14), and that the second pair of draw-off rollers (11, 13) is designed to execute a constant rotation, so that a loop (32) of the fibre web (14) is formed between the pairs of draw-off rollers (10, 12 and 11, 13), which loop changes in length during a combing cycle.

IPC 8 full level
D01G 19/20 (2006.01)

CPC (source: EP)
D01G 19/20 (2013.01)

Citation (search report)
See references of WO 2022161652A1

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

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
DE 102021101809 A1 20220728; CN 116601346 A 20230815; EP 4284970 A1 20231206; WO 2022161652 A1 20220804

DOCDB simple family (application)
DE 102021101809 A 20210127; CN 202180084617 A 20211021; EP 2021079186 W 20211021; EP 21798980 A 20211021