

Title (en)
GEAR UNIT FOR A COMBING MACHINE AND COMBING MACHINE COMPRISING A GEAR UNIT

Title (de)
GETRIEBEINHEIT FÜR EINE KÄMMMASCHINE UND KÄMMMASCHINE MIT GETRIEBEINHEIT

Title (fr)
BOÎTE À ENGRENAGES POUR UNE PEIGNEUSE ET PEIGNEUSE COMPRENANT UNE BOÎTE À ENGRENAGES

Publication
EP 4172391 A1 20230503 (DE)

Application
EP 21729836 A 20210526

Priority
• DE 102020117233 A 20200630
• EP 2021063997 W 20210526

Abstract (en)
[origin: WO2022002488A1] The invention relates to a gear unit (1) of a combing machine for spinning preparation, comprising: a main drive shaft (10) which can be driven by a drive motor (27) via a main drive wheel (11); a nipper shaft (12) which can be made to move in an oscillating back and forth rotational movement by a four-bar linkage (13) connected to the main drive wheel (11); a coupling linkage (14) which is connected to the nipper shaft (12) in such a way that the coupling linkage (14) can be moved in an oscillating rotating manner by the nipper shaft (12); a detaching cylinder gearing (16) which is designed for driving at least one detaching cylinder (17, 18), and wherein the detaching cylinder gearing (16) can be continuously driven off via the main drive shaft (10), and wherein the oscillating movement can be introduced into the detaching cylinder gearing (16) by means of the coupling linkage (14) and can be superimposed upon the continuous driving by means of the main drive shaft (10) in the detaching cylinder gearing (16), such that a pilgrim-step movement can be performed with an output shaft (19) of the detaching cylinder gearing (16). According to the invention, a control gear unit (20) a control motor (23) are provided, wherein the output shaft (19) of the detaching cylinder gearing (16) is operatively connected to the control gear unit (20) and wherein the control motor (23) is designed for introducing a rotational movement into the control gear unit (20), which rotational movement can be applied to the output shaft (19) of the detaching cylinder gearing (16) by means of the control gear unit (20).

IPC 8 full level
D01G 19/20 (2006.01); **D01G 19/26** (2006.01)

CPC (source: EP)
D01G 19/20 (2013.01); **D01G 19/26** (2013.01)

Citation (search report)
See references of WO 2022002488A1

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 102020117233 A1 20211230; CN 115803486 A 20230314; EP 4172391 A1 20230503; WO 2022002488 A1 20220106

DOCDB simple family (application)
DE 102020117233 A 20200630; CN 202180045458 A 20210526; EP 2021063997 W 20210526; EP 21729836 A 20210526