

Title (en)

ROTOR SPINNING DEVICE SELF-CLEANING STRUCTURE, TEXTILE MACHINERY AND SELF-CLEANING OPERATION METHOD

Title (de)

SELBSTREINIGENDE STRUKTUR EINER ROTORSPINNVORRICHTUNG, TEXTILMASCHINE UND SELBSTREINIGENDES BETRIEBSVERFAHREN

Title (fr)

STRUCTURE AUTONETTOYANTE DE DISPOSITIF DE FILATURE À ROTOR, MACHINE TEXTILE ET PROCÉDÉ DE FONCTIONNEMENT AUTONETTOYANT

Publication

EP 4029978 A1 20220720 (EN)

Application

EP 22150970 A 20220111

Priority

CN 202110070207 A 20210119

Abstract (en)

The invention relates to a rotor spinning device self-cleaning structure and a textile machinery as well as to a self-cleaning operation method, wherein the rotor spinning device self-cleaning structure comprises a spinning device that includes a cup insert for conveying cotton fibers, and a rotor. The rotor includes a condensing groove for forming a yarn, and includes a cleaning rod that can extend into and clean the condensing groove of the rotor when the rotor is in an operating state, and a driving device for driving the cleaning rod to operate. In addition, the rotor self-cleaning method comprises a rotor spinning device self-cleaning structure as described above, when the rotor is to be cleaned, the driving device drives the cleaning rod to move from an initial operating position to a cleaning operating position in which the cleaning rod is in contact with the condensing groove of the rotor in the rotating operating state. The invention can realize the cleaning of the rotor without stopping the machine and has a good cleaning effect, and at the same time can ensure the production efficiency of the textile machinery with the self-cleaning structure and improve the production benefit.

IPC 8 full level

D01H 4/08 (2006.01); **D01H 4/24** (2006.01)

CPC (source: CN EP)

D01H 4/08 (2013.01 - CN EP); **D01H 4/24** (2013.01 - CN EP)

Citation (applicant)

DE 10023148 A1 20011122 - HOHLBEIN RENATE [DE]

Citation (search report)

- [XAYI] GB 1142923 A 19690212 - SCHUBERT & SALZER MASCHINEN
- [Y] US 5609015 A 19970311 - RAASCH HANS [DE], et al
- [A] DE 102016009278 A1 20180201 - SAURER GERMANY GMBH & CO KG [DE]
- [A] US 2020199789 A1 20200625 - KUEBLER MARKUS [DE], et al

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

DOCDB simple family (publication)

EP 4029978 A1 20220720; **EP 4029978 B1 20240821**; CN 112760764 A 20210507

DOCDB simple family (application)

EP 22150970 A 20220111; CN 202110070207 A 20210119