

Title (en)

NEW EASILY REPLACEABLE HOB CUTTER SYSTEM AND INSTALLATION METHOD THEREOF

Title (de)

NEUES, LEICHT AUSTAUSCHBARES WÄLZFRÄSERSYSTEM UND INSTALLATIONSVERFAHREN DAFÜR

Title (fr)

NOUVEAU SYSTÈME DE FRAISE-MÈRE FACILEMENT REMPLAÇABLE ET SON PROCÉDÉ D'INSTALLATION

Publication

EP 3964687 A4 20220601 (EN)

Application

EP 20799053 A 20200317

Priority

- CN 201910348937 A 20190428
- CN 201910348942 A 20190428
- CN 201910348863 A 20190428
- CN 201921617851 U 20190926
- CN 2020079640 W 20200317

Abstract (en)

[origin: EP3964687A1] Provided are a new-type easily replaceable hob cutter system and a mounting method therefor. The system comprises a cutter holder (1) and a hob (4), the hob (4) being connected to the cutter holder (1) by means of a cutter shaft holder (2), and the cutter shaft holder (2) being fixedly connected to the cutter holder (1) by means of a telescopic tensioning mechanism (3) or a locking mechanism (5). The hob cutter system is designed to have three parts including the cutter holder, the cutter shaft holder, and the locking mechanism or the telescopic tensioning mechanism, so as to change the structure of a conventional cutter system, which makes the hob mounting, locking and removal process simpler, facilitates the automation of cutter replacement, and provides technical support for the efficient and safe "substituting labor with machine" operation mode for the cutter detection and cutter replacement operations.

IPC 8 full level

E21D 9/087 (2006.01)

CPC (source: EP)

E21D 9/087 (2013.01)

Citation (search report)

- [XA] CN 109236310 A 20190118 - UNIV DALIAN TECH
- [XA] CN 109236316 A 20190118 - UNIV DALIAN TECH
- [XA] US 2013045055 A1 20130221 - DERYCKE JEAN-NOEL [FR], et al
- See references of WO 2020220850A1

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 3964687 A1 20220309; EP 3964687 A4 20220601; EP 3964687 B1 20230510; PL 3964687 T3 20231016; WO 2020220850 A1 20201105

DOCDB simple family (application)

EP 20799053 A 20200317; CN 2020079640 W 20200317; PL 20799053 T 20200317