

Title (en)

A RECTIFYING SYSTEM FOR SQUARING MACHINES, SQUARING MACHINE AND CONTROL METHOD THEREOF

Title (de)

EIN GLEICHRICHTERSYSTEM FÜR QUADRATIERMASCHINEN, QUADRIERMASCHINE UND STEUERUNGSMETHODE DAVON

Title (fr)

SYSTÈME DE RECTIFICATION POUR MACHINES À CARRER, MACHINE À CARRER ET PROCÉDÉ DE COMMANDE

Publication

EP 3851246 A1 20210721 (EN)

Application

EP 21151602 A 20210114

Priority

IT 202000000829 A 20200117

Abstract (en)

A rectifying system (25) for slab squaring machines which comprises:- a rectifying machine (250) comprising:- a support frame (251);- an electric motor (252) supported by the support frame (251) and provided with a drive shaft (253) rotatable about its own rotation central axis (A), wherein at a free end of the drive shaft an abrasive grindstone (255) is fixed; and- an electric actuator (257) configured to translate the abrasive grindstone (255) along a translation trajectory (D) that is parallel to its central axis (A) with respect to the support frame (251) between a backward position and an advanced position; the rectifying system (25) comprising, in addition, - an abutment body (27) placed along the translation trajectory of the abrasive grindstone (255) at a predetermined distance from the support frame (251) and configured to contact an abrasive surface (2550) of the abrasive grindstone (255) opposite the free end of the drive shaft (253); and- an electronic control unit (30), characterised in that the electronic control unit (30) is configured for:- activating the electric activator (257) to translate the abrasive grindstone (255) along the translation trajectory towards the advanced position;- detecting a contact between the abrasive surface (2550) of the abrasive grindstone (250) and the abutment body (27) during the translation run of the abrasive grindstone (255) towards the advanced position, wherein the translation run is imposed to the abrasive grindstone (255) by the electric actuator (257); and- determining a reference position of the abrasive surface (2550) of the abrasive grindstone (255) based on the detected contact.

IPC 8 full level

B24B 9/00 (2006.01); **B24B 9/06** (2006.01); **B24B 9/10** (2006.01); **B24B 27/00** (2006.01); **B24B 47/22** (2006.01); **B24B 47/26** (2006.01); **B24B 49/10** (2006.01); **B24B 49/16** (2006.01); **B24B 49/18** (2006.01)

CPC (source: EP)

B24B 9/002 (2013.01); **B24B 9/06** (2013.01); **B24B 9/10** (2013.01); **B24B 9/102** (2013.01); **B24B 27/0076** (2013.01); **B24B 47/22** (2013.01); **B24B 47/26** (2013.01); **B24B 49/10** (2013.01); **B24B 49/16** (2013.01); **B24B 49/183** (2013.01)

Citation (search report)

- [X] EP 1422024 A1 20040526 - BIESSE SPA [IT]
- [I] EP 0689899 A1 19960103 - BOTTERO SPA [IT]

Cited by

CN114871900A

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 3851246 A1 20210721; IT 202000000829 A1 20210717

DOCDB simple family (application)

EP 21151602 A 20210114; IT 202000000829 A 20200117