

Title (en)

Machine for grinding plate-shaped elements, particularly tiles and slab of ceramic material, natural stones, glass or the like

Title (de)

Maschine zum Schleifen plattenförmiger Elemente, insbesondere Fliesen und Kacheln aus Keramikmaterial, Natursteine, Glas oder dergleichen

Title (fr)

Machine à meuler des éléments en forme de plaque, en particulier des tuiles et des dalles de matériau céramique, des pierres naturelles, du verre ou similaire

Publication

EP 2853343 A3 20150422 (EN)

Application

EP 14183839 A 20110221

Priority

- IT MO20100056 A 20100308
- EP 11713042 A 20110221

Abstract (en)

[origin: WO2011110907A1] The machine (1) for grinding plate-shaped elements, particularly tiles and slabs of ceramic material, natural stones, glass or the like, comprises: a base frame (2); forward movement means (3) for at least a plate-shaped element (4) having at least a first side (5) to be ground and at least a second side (6) transversal to the first side (5), the forward movement means (3) being fitted on the base frame (2) and being suitable for moving the plate-shaped element (4) on a movement surface (8) along a direction of forward movement (A); machining means (20, 21) for the first side (5), which are arranged in proximity of the movement surface (8) and are suitable for intercepting the plate-shaped element (4) in its movement along the direction of forward movement (A), the machining means (20, 21) comprising at least one between a side grinding wheel (20) and a chamfering wheel (21); and square positioning means (32, 33, 34, 35) of the plate-shaped element (4) on the movement surface (8), which comprise: - a first pusher (32) and a second pusher (33) moving alternately along the direction of forward movement (A) and are suitable for pushing the second side (6) to place it in a squared-up position substantially at right angles to the direction of forward movement (A); a first linear actuator (34) suitable for operating the first pusher (32) and a second linear actuator (35) suitable for operating the second pusher (33), the linear actuators (34, 35) being separated and independent the one from the other and electronically connected to a processing and control unit (16) suitable for controlling their relative movement.

IPC 8 full level

B24B 7/22 (2006.01); **B24B 7/26** (2006.01); **B24B 9/06** (2006.01); **B24B 9/08** (2006.01); **B24B 9/10** (2006.01)

CPC (source: EP)

B24B 7/224 (2013.01); **B24B 7/265** (2013.01); **B24B 9/06** (2013.01); **B24B 9/08** (2013.01); **B24B 9/102** (2013.01)

Citation (search report)

- [AD] EP 1649976 A1 20060426 - BIESSE SPA [IT]
- [AD] JP H07186024 A 19950725 - ASAHI GLASS CO LTD
- [AD] US 6152809 A 20001128 - YENAWINE PETER W [US]

Cited by

CN109759955A; CN112059802A; CN106826442A; IT201900002587A1; EP3466628A1; ITUA20163145A1; IT201700112496A1; WO2020170120A1; EP3581331A1

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

DOCDB simple family (publication)

WO 2011110907 A1 20110915; EP 2544858 A1 20130116; EP 2544858 B1 20140924; EP 2853343 A2 20150401; EP 2853343 A3 20150422; EP 2853343 B1 20160817; IT 1398656 B1 20130308; IT MO20100056 A1 20110909

DOCDB simple family (application)

IB 2011000333 W 20110221; EP 11713042 A 20110221; EP 14183839 A 20110221; IT MO20100056 A 20100308