

Title (en)
POLISHING MACHINE

Title (de)
POLIERMASCHINE

Title (fr)
MACHINE DE POLISSAGE

Publication
EP 3115150 A4 20171018 (EN)

Application
EP 15758008 A 20150226

Priority
• JP 2014044860 A 20140307
• JP 2015055554 W 20150226

Abstract (en)
[origin: EP3115150A1] [Technical Problem] An object is to provide a polishing machine capable of reducing vibration. [Solution to Problem] A polishing machine (10) has an abrasive holding member (16) mounted to a drive shaft (22) rotationally driven by a vane air motor (18) such that the abrasive holding member (16) is rotatable about an eccentric axis (25) relative to a rotational drive center axis (24) of the drive shaft (22). The abrasive holding member (16) has a movement restricting part (40) provided at a position away from the eccentric axis in the direction of a radial axis (38) that is radial to the eccentric axis. A pair of guide rollers (42) and (43) provided in a body part (12) are disposed so that a first engagement position where one guide roller (42) and the movement restricting part engage each other and a second engagement position where the other guide member (43) and the movement restricting part engage with each other are located on the laterally opposite sides of the radial axis (38), facing each other across the radial axis, to restrict movement of the abrasive holding member (16) so that, when the drive shaft (22) is rotationally driven, the abrasive holding member (16) is displaced in the direction of the radial axis (38), while pivoting about a point between the first engagement position and the second engagement position.

IPC 8 full level
B24B 23/02 (2006.01); **B24B 23/04** (2006.01)

CPC (source: EP KR)
B24B 23/026 (2013.01 - EP KR); **B24B 23/03** (2013.01 - EP KR)

Citation (search report)
• [A] JP 2010264536 A 20101125 - NITTO KOHKI CO & JP 5363870 B2 20131211
• [A] US 5947804 A 19990907 - FUKINUKI MASATOSHI [JP], et al
• [A] US 5167095 A 19921201 - BERGER GUENTHER [DE]
• [A] EP 2127808 A1 20091202 - BLACK & DECKER INC [US]
• [A] US 5419737 A 19950530 - BRAZELL KENNETH M [US], et al
• See references of WO 2015133355A1

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)
EP 3115150 A1 20170111; EP 3115150 A4 20171018; EP 3115150 B1 20180711; AU 2015225119 A1 20160901; AU 2015225119 B2 20170309; CN 106061677 A 20161026; CN 106061677 B 20171222; JP 2015168032 A 20150928; JP 6249828 B2 20171220; KR 101882119 B1 20180725; KR 20160119160 A 20161012; TW 201600227 A 20160101; TW I568532 B 20170201; WO 2015133355 A1 20150911

DOCDB simple family (application)
EP 15758008 A 20150226; AU 2015225119 A 20150226; CN 201580011727 A 20150226; JP 2014044860 A 20140307; JP 2015055554 W 20150226; KR 20167024453 A 20150226; TW 104106818 A 20150304