

Title (en)

Polishing method for processing an optical surface of an optical lens and polishing tools suitable for the same

Title (de)

Poliervfahren zur Bearbeitung einer optischen Oberfläche einer optischen Linse und hierfür geeignete Polierwerkzeuge

Title (fr)

Procédé de polissage destiné au traitement d'une surface optique d'une lentille optique et outils de polissage appropriés

Publication

EP 2837464 B1 20161109 (DE)

Application

EP 14171252 A 20140605

Priority

DE 102013108766 A 20130813

Abstract (en)

[origin: CA2858341A1] The invention relates to a polishing method for machining an optical surface of an optical lens, with a polishing wheel which has a wheel axis which is surrounded radially by a polishing face, and in which the polishing face of the polishing wheel is laid onto the surface of the lens, the polishing wheel is moved in relation to the lens over the surface of the latter along a spiral machining path, the polishing wheel is rotated about the wheel axis, and the polishing wheel is (simultaneously) rotated about an axis of rotation which is oriented perpendicularly to the wheel axis, and in which the rotational speed of the polishing wheel about the wheel axis and/or the axis of rotation is reduced at the spiral centre of the movement path. Moreover, the invention relates to a polishing tool for carrying out a polishing method of this type, a workpiece fixture for receiving an optical lens standing opposite the polishing wheel, and the workpiece fixture and the polishing wheel being mounted movably in relation to one another along a spiral movement path. Furthermore, the invention relates to a polishing tool in which the rotational speed of the wheel axis is coupled kinematically to the rotational speed of the axis of rotation.

IPC 8 full level

B24B 13/04 (2006.01); **B24B 13/06** (2006.01); **B24B 41/00** (2006.01)

CPC (source: EP US)

B24B 13/01 (2013.01 - EP US); **B24B 13/026** (2013.01 - EP US); **B24B 13/04** (2013.01 - EP US); **B24B 13/06** (2013.01 - EP US); **B24B 41/002** (2013.01 - EP US)

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 2837464 A1 20150218; **EP 2837464 B1 20161109**; CA 2858341 A1 20150213; DE 102013108766 A1 20150219; DE 102013108766 B4 20231116; US 2015050864 A1 20150219; US 9421660 B2 20160823

DOCDB simple family (application)

EP 14171252 A 20140605; CA 2858341 A 20140801; DE 102013108766 A 20130813; US 201414457142 A 20140812