Title (en)

Tool for smoothing or polishing optical surfaces

Title (de)

Werkzeug zum Glätten oder Polieren optischer Oberflächen

Title (fr)

Outil pour le lissage ou le polissage de surfaces optiques

Publication

EP 2353781 A3 20121226 (EN)

Application

EP 11152330 A 20110127

Priority

GB 201002017 A 20100208

Abstract (en)

[origin: EP2353781A2] There is disclosed a tool for smoothing or polishing an optical surface (35). The tool comprises a body part (6) which is rotatable about an axis of rotation (8), a plurality of pads (26) arranged in an array to bear against said optical surface (35) for movement across the surface (35) as the tool is rotated about said axis of rotation (8), wherein said pads (26) are each mounted for substantially linear movement relative to said body part (6) in a direction substantially normal to said surface (35) in the region where the pad contacts the surface and universal pivotal movement relative to said body part (6). The pads (26) are biased towards said optical surface (35). In a preferred arrangement, a plurality of pistons (18) are mounted for individual reciprocating movement relative to the body part (6) along respective longitudinal axes (19), each of said pistons (18) having a distal end (21) to which a respective said pad (26) is universally articulated, wherein said pistons (18) are each biased towards said optical surface (35).

IPC 8 full level

B24B 13/02 (2006.01); **B24B 13/01** (2006.01)

CPC (source: EP GB US)

B24B 13/0018 (2013.01 - GB); **B24B 13/012** (2013.01 - EP US); **B24B 13/02** (2013.01 - EP GB US)

Citation (search report)

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- [Y] WO 0156740 A1 20010809 - ZEISS CARL [DE], et al
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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)

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DOCDB simple family (application)

EP 11152330 A 20110127; GB 201002017 A 20100208; US 201113021849 A 20110207