

Title (en)
Apparatus for superfinishing machined surfaces

Title (de)
Vorrichtung zum Superfinishen bearbeiteter Oberflächen

Title (fr)
Dispositif de super finition de surfaces usinées

Publication
EP 0936028 B1 20031029 (DE)

Application
EP 98111690 A 19980625

Priority
DE 19804885 A 19980209

Abstract (en)
[origin: EP0936028A2] The device includes a holder (16) for a finishing stone (17), and a multiple-axis drive (22) for a relative movement between the surface (18) to be processed and the tool holder in a plane (21) orthogonal to the processing surface, which is defined through coordinates X and Y. The holder is held by a tilt arrangement (7) around a virtual tilt axis orthogonal to the X-Y plane, whereby the tilt angle of the holder is determined by the calculation devices. The device includes a clamping arrangement (13) for a workpiece (14), a finishing stone (17), a holder (16) for the stone, and a multiple-axis drive (22) for a relative movement between the surface (18) to be processed and the tool holder in a plane (21) orthogonal to the processing surface, which is defined through coordinates X and Y. A control unit is provided for the control of the drive device, comprising input devices for the input of the profile of the surface to be processed, and electronic calculation devices. The holder is held by means of a tilt arrangement (7) around a virtual tilt axis orthogonal to the X-Y plane, whereby the tilt angle of the holder corresponding to the position of the finishing stone is determined by the calculation devices, and the tilt arrangement is controllable by the control unit (23).

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B24B 19/06 (2006.01); **B24B 35/00** (2006.01)

CPC (source: EP US)
B24B 19/06 (2013.01 - EP US); **B24B 35/00** (2013.01 - EP US)

Cited by
DE102010036470B4; DE102008046451A1; EP2095906A1; DE102008011215A1; DE102008046451B4; DE102009059991B3; EP2596907A1; DE102008011215B4; DE102009040062A1; EP2871024A1; DE102010036470A1

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