

Title (en)
METHOD AND DEVICE FOR FLUIDIC GEOMETRY MEASUREMENT

Title (de)
VERFAHREN UND VORRICHTUNG ZUR FLUIDISCHEN GEOMETRIEMESSUNG

Title (fr)
PROCÉDÉ ET DISPOSITIF DE MESURE FLUIDIQUE D'UNE GÉOMÉTRIE

Publication
EP 2961568 A1 20160106 (DE)

Application
EP 14703889 A 20140212

Priority

- DE 102013203340 A 20130228
- EP 2014052741 W 20140212

Abstract (en)
[origin: WO2014131621A1] In order to measure the geometry of a workpiece surface (165) without contact, in particular in order to measure the geometry of substantially rotationally symmetrically curved workpiece surfaces on workpiece sections machined by means of honing or finishing, before, during, and/or after a fine machining process, a measuring system (150) comprising at least one measuring nozzle (152, 153) is used, said nozzle being attached to a tool (140) and being connected to a pressure fluid source (151) arranged at a distance from the measuring nozzle by means of a pressure fluid line (156, 157, 155, 154). The measuring nozzle is brought near the workpiece surface (165) in order to perform a measurement, and a property of the pressure fluid dependent on the distance (A) between the measuring nozzle and the workpiece surface is measured and is evaluated in order to determine the distance. In said measurement, a fluid flow of the pressure fluid flowing through the pressure fluid line to the measuring nozzle is measured by means of a flow sensor (170) and a sensor signal of the flow sensor is evaluated in order to determine the distance.

IPC 8 full level
B24B 33/04 (2006.01); **B24B 33/06** (2006.01); **B24B 33/08** (2006.01); **B24B 49/08** (2006.01)

CPC (source: EP)
B24B 33/04 (2013.01); **B24B 33/06** (2013.01); **B24B 33/087** (2013.01); **B24B 49/08** (2013.01)

Citation (search report)
See references of WO 2014131621A1

Citation (examination)

- US 2477399 A 19490726 - FAY ALLER WILLIS
- US 3482433 A 19691209 - GLADWYN BURCHELL J
- EP 2357444 A1 20110817 - IQ2 PATENTVERWALTUNG UG HAFTUNGSBESCHRAENKT [DE]

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