

Title (en)
Improvements in and relating to workpiece gauging

Title (de)
Verbesserungen an oder in Bezug auf Messen

Title (fr)
Perfectionnements relatifs au calibrage

Publication
EP 0903199 A3 19990714 (EN)

Application
EP 98307304 A 19980909

Priority
• GB 9720088 A 19970923
• GB 9815625 A 19980718

Abstract (en)
[origin: EP0903199A2] A gauge for a grinding machine for in-process gauging of a cylindrical off-axis region of a workpiece, in particular a crankpin (18, 20) of a crankshaft, comprises a pair of parallel struts (48, 50) each pivoted from a rigid support mounted on and movable with a wheelhead (10) which incorporates a grinding wheel (12, 14). The free ends of the struts are pivotally jointed to a plate (40), from which is pivoted a link (36) whose other end is pivotally attached to the gauge or probe (22). A pair of fingers (24, 26) incorporating transducers extend from the gauge around opposite sides of the crankpin for measuring its diameter while being ground. The strut (50) is reciprocated up and down by a servo drive (64) such that, in conjunction with the horizontal motion imparted by the wheelhead, the gauge is caused to follow substantially the same path as the workpiece region. <IMAGE>

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B24B 5/42; **B24B 49/04**

IPC 8 full level
B24B 5/42 (2006.01); **B24B 49/04** (2006.01)

CPC (source: EP)
B24B 5/42 (2013.01); **B24B 49/04** (2013.01)

Citation (search report)
• [XY] WO 9713614 A1 19970417 - SAGEM [FR], et al
• [Y] WO 9712724 A1 19970410 - MARPOSS SPA [IT], et al
• [A] US 5542188 A 19960806 - ERTL FRIEDRICH [DE], et al
• [A] DE 4419656 A1 19960111 - NAXOS UNION SCHLEIFMITTEL [DE]

Cited by
US2014004774A1; CN110274562A; CN110411389A; JP2019063962A; EP1197294A1; GB2475391A; GB2475391B; EP1118833A3; EP2028437A1; US8678879B2; US6952884B2; US7020974B2; WO2012136992A1; WO03106108A1; WO2011013710A1; WO0170456A3; WO02070195A1; JP5064571B2; US7607239B2; US7954253B2; US7690127B2; US6643943B2; US6848190B2; US7024785B2; US7325324B2; US7464482B2

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