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(54) Improvements in and relating to workpiece gauging

(57) 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 wheel-head (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.

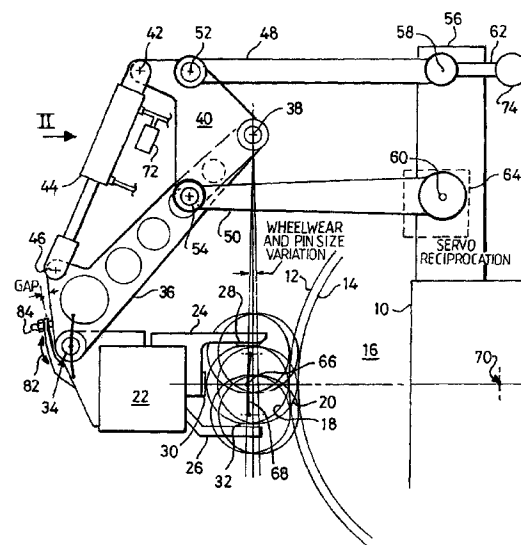


Fig. 1

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EUROPEAN SEARCH REPORT

Application Number
EP 98 30 7304

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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 20 May 1999	Examiner Garella, M
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

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