

Title (en)
GRINDING MACHINE FOR WET GRINDING ROLLS WITH SLIGHT PROFILE

Publication
EP 0154683 B1 19890614 (DE)

Application
EP 84113883 A 19841116

Priority
DE 3409287 A 19840314

Abstract (en)
[origin: EP0154683A2] 1. Grinding machine (11) comprising a rotary device (15) for receiving a roll (21) to be ground with a profile departing slightly the cylindrical form, a measuring arm (16) whose one end is connected to the support (13) of the grinding stone (12), and at whose other end is located a holder (17) arranged to be movable in the direction towards the axis of the rotary device (15), said holder comprising a unit (18, 19) for maintaining a constant distance from the surface of the roll (21) and on the holder (17) being secured the probe (20) of a measuring or testing device for the supervision and control of the grinding process which is controlled manually or by automatic means, characterized in that the unit (18, 19) for maintaining a constant spacing from the surface of the roll (21) does not come into contact with the roll and comprises a contactless element in form of an air nozzle (19) which measures the distance and is known per se, said air nozzle being connected by a passage to a piston which moves the holder (17) towards or away from the roll (21) so that changes in the dynamic pressure cause movement of the piston in the direction to restore the desired spacing, and on the holder (17) is mounted more than one probe of testing or measuring means which are located in the testing or measuring state when the grinding stone (12) is grinding and when her rotary device (15) is rotating.

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B24B 5/16; B24B 49/04

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CPC (source: EP)
B24B 5/167 (2013.01); **B24B 49/08** (2013.01)

Cited by
CN113427390A; EP0377796A3; CN104959883A; CN102248453A; EP0242593A3; EP0238137A3; US5371975A; CN107413558A; WO9114535A1

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