

Title (en)
METHOD FOR GRINDING CAMS OF A CAMSHAFT

Publication
EP 0339293 A3 19900829 (DE)

Application
EP 89105739 A 19890401

Priority
DE 3814124 A 19880427

Abstract (en)
[origin: EP0339293A2] The method serves to grind cams (10) of a camshaft. The cams (10) are rotated at a predetermined angular velocity (ω) about a first axis (13) running through the centre of a base circle (15) of the cams (10). A grinding wheel (20) bears with a generating line (23) parallel to the first axis (13) against the cams (10). It is moved as a function of the rotary position (ϕ) of the cams (10) relative to the first axis (13) along a second axis (11) which is perpendicular to the first axis (13). This takes place in such a way that the generating line (23) travels on a predetermined cam contour (15, 16, 17) during the rotation of the cams (10), the angular velocity (ω) being varied during the rotation of the cams (10). In this way, the generating line (23) travels along the base circle (15) at higher angular velocity (ω_G), whereas it travels along flanks (16) and a tip (17) of the cams (10) at reduced angular velocity (ω_F). In order to reduce the remaining cam form errors without increasing the total grinding time, the angular velocity (ω) in the area of the tip (17) is set at a value (ω_S) above the reduced angular velocity (ω_F) but below the higher angular velocity (ω_G). <IMAGE>

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B24B 19/12

IPC 8 full level
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Citation (search report)
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