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 (omega) 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 (phi) 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 (omega) 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 (omega G), whereas it travels along flanks (16) and a tip (17) of the cams (10) at reduced angular velocity (omega F). In order to reduce the remaining cam form errors without increasing the total grinding time, the angular velocity (omega G) in the area of the tip (17) is set at a value (omega S) above the reduced angular velocity (omega F) but below the higher angular velocity (omega G). <IMAGE>

IPC 1-7

## B24B 19/12

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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- [A] EP 0085225 A2 19830810 LITTON INDUSTRIAL PRODUCTS [US]
- [A] DE 2712029 A1 19780921 MITSUBISHI HEAVY IND LTD
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Cited by

EP1473113A1; CN102049719A; US7153194B2; WO0130535A1

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