

Title (en)

METHOD FOR PRODUCING A CAM PROFILE OF A CAM PACK OF A CAMSHAFT, AND CAMSHAFT

Title (de)

VERFAHREN ZUR ERZEUGUNG EINES NOCKENPROFILS EINES NOCKENPAKETES EINER NOCKENWELLE UND NOCKENWELLE

Title (fr)

PROCÉDÉ DE GÉNÉRATION D'UN PROFIL DE CAME D'UN PAQUET DE CAMES D'UN ARBRE À CAMES ET ARBRE À CAMES

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Application

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Abstract (en)

[origin: WO2016096181A1] The invention relates to a method for producing a cam profile of a cam pack of a cam shaft, said cam pack having at least two cam elements that can be adjusted in relation to each other, and to a camshaft, wherein the camshaft comprises an outer shaft, an inner shaft arranged concentrically within the outer shaft in such a way that the inner shaft can be rotated, and at least one fixed cam element connected to the outer shaft for conjoint rotation and one adjustment cam element connected to the inner shaft for conjoint rotation, wherein the method comprises at least the following steps: processing an adjustment cam contour of the adjustment cam element by means of the continuous diameter reduction of at least one segment of the adjustment cam base circle, wherein the adjustment cam base circle is reduced to a diameter that is smaller than a fixed cam nominal circle diameter minus a doubled adjustment cam base circle tolerance, and processing a fixed cam contour of the fixed cam element by reducing a fixed cam contour protrusion at least in a region between a transition point, upon the reaching of which a tapping element for converting a revolving motion of the cam elements into a linear motion of the valves is transferred from the fixed cam element to the adjustment cam element, and is placed to a processing point.

IPC 8 full level

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