

Title (en)  
CYLINDER HEAD FOR INTERNAL COMBUSTION ENGINES AND METHOD FOR PRODUCING SAME

Title (de)  
ZYLINDERKOPF FÜR VERBRENNUNGSMOTOREN UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)  
CULASSE POUR MOTEURS A COMBUSTION INTERNE ET SON PROCEDE DE PRODUCTION

Publication  
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Application  
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Abstract (en)  
[origin: DE19826286A1] The invention relates to a cylinder head for internal combustion engines, comprising one or more passages for mounting camshafts and bearing axles for rocker arms which preferably also actuate a pump-nozzle unit. The cylinder head has the following structure: at least one camshaft is mounted in the cylinder head in divided bearings having screwed on bearing bridges; next to and above the camshaft bearings seats are arranged at the level of the bearing bridges for bearing axles of rocker arms driven by the adjacent camshafts; the bearing axles are held tightly against the bearing bridge by means of screws projecting through them. The aim of the invention is to provide a way of deflecting the tensile forces from the cylinder head which occur at the level of the bearing axle of the rocker arms and are transmitted by their fixing screws. This is achieved by the following characteristics: next to the camshaft bearing (3) a tightening screw (5) with a longer cylindrical head (6) is arranged which is supported by the cylinder head (1) and extends as far as the cylinder block and engages same; the longer cylindrical head (6) has an internal profile (7) and, behind it, an inner thread (8) which is adjusted to the core cross-section of the internal profile (7); the screws (9) projecting through the bearing axles (4) are screwed into the inner thread (8) of the head (6) of the tightening screws (5).

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IPC 8 full level  
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