

Title (en)

BEAM-LIKE CROSSHEAD FOR A VALVE TRAIN OF A HEAVY DUTY INTERNAL COMBUSTION ENGINE

Title (de)

BALKENARTIGE BRÜCKE FÜR EINEN VENTILTRIEB EINER HEAVY-DUTY-BRENNKRAFTMASCHINE

Title (fr)

CROSSE DE TYPE POUTRE DESTINÉE À UN TRAIN DE SOUPAPES D'UN MOTEUR À COMBUSTION INTERNE À USAGE INTENSIF

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Application

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Priority

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Abstract (en)

[origin: WO2021073680A1] The invention relates to a beam-like crosshead (1) for a valve train of a heavy duty internal combustion engine for the transmission of a cam lift to two identically acting gas exchange valves, which crosshead (1) is a single-piece hollow body with a reversed U-shaped profile produced from sheet steel by stamping/bending, formed by a transverse wall (3) having side walls (4) hanging from the longitudinal edges (9a) thereof, which transverse wall (3), proceeding from each longitudinal end (8) of the crosshead (1), has a plateau (10), and at the longitudinal centre of the crosshead (1), has a raised contact zone (6) for an at least indirect cam counter-rotation, which plateaus (10) are each connected to the contact zone (6) via a roof portion (11), wherein: on an underside (7) of the transverse wall (3) at each of the longitudinal ends (8) there is a gas exchange valve contact surface (9); the plateaus (10) each have a rectangular channel-like central portion (12) which is sunken relative to the longitudinal edges (9a) by deep drawing and whose longitudinal walls (13) have outer surfaces (14) which face inner sides (15) of the transverse walls (3) over a portion of their height; the gas exchange valve contact surfaces (9) are located on lower surfaces (16) of the central portions (12) of the plateaus (10); the roof portions (11) are in the form of spherical segments; and the side walls (4) come to end in an unconnected manner at the longitudinal ends (8) of the crosshead (1).

IPC 8 full level

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