

Title (en)  
DRAG LEVER OF A VALVE MECHANISM IN AN INTERNAL COMBUSTION ENGINE

Title (de)  
SCHLEPPHEBEL EINES VENTILTRIEBS EINER BRENNKRAFTMASCHINE

Title (fr)  
LEVIER D'ENTRAINEMENT D'UN MECANISME DE DISTRIBUTION D'UN MOTEUR A COMBUSTION INTERNE

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Abstract (en)  
[origin: WO03042510A1] Disclosed is a drag lever (1) of a valve mechanism in an internal combustion engine, which can be shifted between various valve lifts for at least one gas exchange valve, comprising an outer lever (2) between whose arms (3a, 3b) an inner lever (6), which is pivotally moveable in relation thereto, is positioned, and both arms (2, 6) are coupled to each other by coupling means (15) in such a way that a large valve lift is generated during coupling and a smaller valve lift is generated during decoupling. The drag lever (1) is provided with a system (8) for a gas exchange valve on one end (7) thereof and is provided with a complementary surface, on the opposite end (4), for a support element, in addition to a run-on surface (14) for a cam. According to the invention, the outer lever is configured for transmission of a large cam pitch and the inner lever (6) is configured for transmission of a smaller cam pitch. The inner lever (6) is exclusively provided with a rotatable roller as a run-on surface (14) and a sliding caliper is provided as a run-off surface on each of the arms (3a, 3b) of the outer lever (2). A shiftable drag lever (1) is created, wherein only the lift part is provided with a roller as a run-on surface (14) for a cam, which lift part is predominantly shifted during operation of the internal combustion engine, being the inner lever (6) in said case.

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