

Title (en)
ROCKER ARM CONSISTING OF SHEET STEEL

Title (de)
KIPPHEBEL AUS STAHLBLECH

Title (fr)
CULBUTEUR EN TÔLE D'ACIER

Publication
EP 1979581 B1 20130710 (DE)

Application
EP 06847037 A 20061221

Priority
• EP 2006070092 W 20061221
• DE 102006002996 A 20060121

Abstract (en)
[origin: WO2007082622A1] The invention relates to a rocker arm (1) consisting of thin-walled sheet steel. The arm is designed to be used in a suspended assembly comprising additional rocker arms beneath a bar-type support (2) of a valve train in an internal combustion engine and has an inverted U-shaped profile. The underside (5) of a transverse section (4) is equipped at one end (6) with a structure (7) for a gas exchange valve. The upper face (9) of the transverse section (4) is pushed downwards in the vicinity of the structure (7) in relation to the underside (5) in a stamping and extrusion method, to produce an M-shaped cross-section with a longitudinal channel (10) on the upper face (9). The other end (11) of the rocker arm (1) is forked and open, forming a region (12) that is bent at an angle towards the underside (5). A roller that acts as a cam thrust surface is attached (13) to said region. A rocker arm (1) of this type has excellent rigidity, can be simply produced and requires little headroom.

IPC 8 full level
F01L 1/18 (2006.01)

CPC (source: EP US)
F01L 1/182 (2013.01 - EP US); **F01L 2001/188** (2013.01 - EP US); **Y10T 74/20882** (2015.01 - EP US)

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
WO 2007082622 A1 20070726; CN 101360889 A 20090204; CN 101360889 B 20101208; DE 102006002996 A1 20070802; EP 1979581 A1 20081015; EP 1979581 B1 20130710; US 2009007870 A1 20090108; US 7918200 B2 20110405

DOCDB simple family (application)
EP 2006070092 W 20061221; CN 200680051514 A 20061221; DE 102006002996 A 20060121; EP 06847037 A 20061221; US 8793406 A 20061221