

Title (en)  
CUSTOM VVA ROCKER ARMS FOR LEFT HAND AND RIGHT HAND ORIENTATIONS

Title (de)  
ANGEPASSTE VVA-KIPPEBEL FÜR LINKS- UND RECHTSAUSRICHTUNG

Title (fr)  
CULBUTEURS VVA ADAPTÉS POUR ORIENTATIONS GAUCHE ET DROITE

Publication  
**EP 3216991 A1 20170913 (EN)**

Application  
**EP 17165820 A 20140220**

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- US 201313868025 A 20130422
- US 201313868035 A 20130422
- US 201313868045 A 20130422
- US 201313868054 A 20130422
- US 201313868061 A 20130422
- US 201313868067 A 20130422
- US 201313868068 A 20130422
- US 2013037667 W 20130422
- US 2013037665 W 20130422
- US 201313873774 A 20130430
- US 201313873797 A 20130430
- US 2013038896 W 20130430
- US 2013068503 W 20131105
- EP 14156009 A 20140220

Abstract (en)  
A modified rocker assembly having an offset end is designed to be used in engine heads having an obstruction that would not allow a switching rocker arm to be used. The modified rocker assembly is described having an obstructed side and a non-obstructed side. The rocker assembly has an outer structure with a first end, and an inner rocker structure fitting within the outer structure, the inner structure also having a first end. The modified rocker assembly has an axle pivotally connecting the first ends of inner structure to the outer structure, such that the inner structure may rotate within the outer structure around the axle. At least one torsion spring on one side of axle, rotationally biases the inner structure relative to the outer structure. The outer structure, on the obstructed side as it extends from the second end toward the first end, is offset toward the non-obstructed side creating the first offset portion to provide additional clearance on the obstructed side. This design allows the modified rocker arm to fit into an engine head having an obstruction on its obstruction side.

IPC 8 full level  
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**F01L 1/182** (2013.01); **F01L 13/00** (2013.01); **F01L 13/0005** (2013.01); **F01L 13/0036** (2013.01); **F01L 1/46** (2013.01); **F01L 2303/01** (2020.05); **F01L 2305/00** (2020.05)

Citation (applicant)

- US 2013068503 W 20131105
- US 201113051839 A 20110318
- US 201113051848 A 20110318
- US 201313868025 A 20130422
- US 201313868035 A 20130422
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- US 2013038896 W 20130430
- US 201261636277 P 20120420
- US 201261637786 P 20120424
- US 201261640709 P 20120430
- US 201261640713 P 20120430
- US 201361777769 P
- US 201261640705 P 20120430
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- [A] US 2007283914 A1 20071213 - ZURFACE AUSTIN R [US], et al
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US9938865B2; US11085338B2; US11530630B2

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