

Title (en)  
METHOD OF DETERMINING A CLEARANCE

Title (de)  
SPIELERMITTLUNGSVERFAHREN

Title (fr)  
PROCEDE DE DETERMINATION D'UN JEU

Publication  
**EP 1525375 A1 20050427 (FR)**

Application  
**EP 03750797 A 20030710**

Priority  
• FR 0302170 W 20030710  
• FR 0209434 A 20020725

Abstract (en)  
[origin: WO2004016912A1] The invention relates to a method of determining a clearance between a valve (1) stem (3) of a heat engine (2) and a mobile element (8) of an electromagnetic actuator (7) comprising electromagnetic means (14, 15) which are used to move said mobile element between an end valve open position and an end valve closed position. The aforementioned electromagnetic movement means are controlled using automatic control means according to a set current. The inventive method comprises steps consisting in controlling the electromagnetic means in order to: obtain an essentially constant movement speed for the aforementioned mobile element moving between the end closed position and the end open position, obtain the values of the set electrical characteristic for intermediary positions of the mobile element and detect an intermediary position for which the set electrical characteristic undergoes a sudden variation.

IPC 1-7  
**F01L 9/04**

IPC 8 full level  
**F01L 9/04** (2006.01); **F01L 9/20** (2021.01)

CPC (source: EP US)  
**F01L 9/20** (2021.01 - EP US); **F01L 2009/2136** (2021.01 - EP US); **F01L 2009/2171** (2021.01 - EP US); **F01L 2009/4098** (2021.01 - EP US); **F01L 2800/00** (2013.01 - EP US); **Y10T 137/0318** (2015.04 - EP US); **Y10T 137/8158** (2015.04 - EP US); **Y10T 137/8225** (2015.04 - EP US)

Citation (search report)  
See references of WO 2004016912A1

Designated contracting state (EPC)  
DE ES FR GB IT

DOCDB simple family (publication)  
**FR 2842862 A1 20040130; FR 2842862 B1 20060303**; DE 60326145 D1 20090326; EP 1525375 A1 20050427; EP 1525375 B1 20090211; JP 2006501391 A 20060112; JP 4048201 B2 20080220; US 2005269536 A1 20051208; US 7121525 B2 20061017; WO 2004016912 A1 20040226

DOCDB simple family (application)  
**FR 0209434 A 20020725**; DE 60326145 T 20030710; EP 03750797 A 20030710; FR 0302170 W 20030710; JP 2004528568 A 20030710; US 52229305 A 20050125