

(19)



(11)

EP 1 983 162 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
09.12.2009 Bulletin 2009/50

(51) Int Cl.:
F01L 1/18 (2006.01) F01M 9/10 (2006.01)

(43) Date of publication A2:
22.10.2008 Bulletin 2008/43

(21) Application number: **08005470.3**

(22) Date of filing: **25.03.2008**

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT
RO SE SI SK TR**
Designated Extension States:
AL BA MK RS

(72) Inventor: **Fasanotto, Umberto**
25030 Macclodio
Brescia (IT)

(30) Priority: **17.04.2007 IT mi20070779**

(74) Representative: **Cicogna, Franco**
Ufficio Internazionale Brevetti
Dott.Prof. Franco Cicogna
Via Visconti di Modrone, 14/A
20122 Milano (IT)

(71) Applicant: **Gnutti Carlo S.p.A.**
25030 Macclodio (Brescia) (IT)

(54) **A connection device for connecting rocker, valve or injection assemblies in internal combustion engines**

(57) A connection device for connecting rocker, valve or injection assemblies in internal combustion engines, comprises a button defining a recess for housing herein an insert coupled to a rocker assembly or the like, the

recess including a lubricating hole and the button comprising a button face contacting a driving plate and including a slot extending radially between the lubricating hole and the outer periphery of the button.

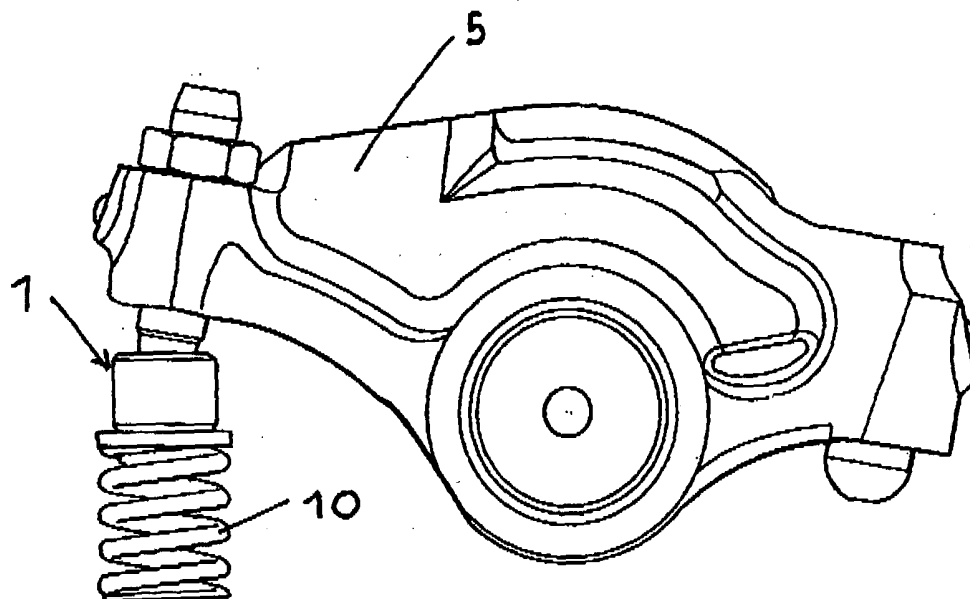


FIG. 1

EP 1 983 162 A3



EUROPEAN SEARCH REPORT

Application Number
EP 08 00 5470

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 2006/132580 A1 (SCANIA CV ABP [SE]; MODAHL FREDRIK [SE]; SKJUTAR MAGNUS [SE]) 14 December 2006 (2006-12-14) * the whole document *	1-4	INV. F01L1/18 F01M9/10
X	US 6 273 042 B1 (PEREZ VINCENT M [US] ET AL) 14 August 2001 (2001-08-14) * the whole document *	1-4	
A	DE 31 13 831 A1 (FAESTER GMBH & CO KG [DE]) 25 February 1982 (1982-02-25) * the whole document *	3	
			TECHNICAL FIELDS SEARCHED (IPC)
			F01M F01L
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 28 October 2009	Examiner Klinger, Thierry
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

1
EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 08 00 5470

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

28-10-2009

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2006132580 A1	14-12-2006	CN 101208499 A	25-06-2008
		EP 1891304 A1	27-02-2008
		JP 2008542631 T	27-11-2008
		SE 528784 C2	13-02-2007
		SE 0501297 A	08-12-2006

US 6273042 B1	14-08-2001	NONE	

DE 3113831 A1	25-02-1982	CH 646498 A5	30-11-1984
		DE 8110390 U1	27-09-1990

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82