



(11) **EP 1 867 861 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
23.09.2009 Bulletin 2009/39

(51) Int Cl.:
F02F 7/00 ^(2006.01) **F01L 1/02** ^(2006.01)

(43) Date of publication A2:
19.12.2007 Bulletin 2007/51

(21) Application number: **07110426.9**

(22) Date of filing: **15.06.2007**

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE
SI SK TR**
Designated Extension States:
AL BA HR MK RS

(30) Priority: **16.06.2006 IT BO20060472**

(71) Applicant: **I-TEA S.r.l.
20123 Milano (IT)**

(72) Inventors:
• **Quattrini, Andrea
41028 Serramazzoni (IT)**
• **Ascari, Ennio
41043 Formigine (IT)**

(74) Representative: **Jorio, Paolo et al
STUDIO TORTA
Via Viotti 9
10121 Torino (IT)**

(54) **A supporting system of a toothed wheel onto a casing of an internal combustion engine**

(57) A supporting system (50) of a toothed wheel (12) onto a casing (CT) of an internal combustion engine (100). The system (50) comprises:
- a first bushing (53) supported by a wall (PT);
- a second bushing (54), adapted to support the toothed wheel (12), which crosses, in use, a through hole (51) made in said casing (CT); the second bushing (54) rests

on said first bushing (53), and
- a screw (55) adapted to secure the second bushing (54) onto the first bushing (53), so as to form a seat (56) adapted to contain supporting and rolling means (57) of the toothed wheel (12).

EP 1 867 861 A3



EUROPEAN SEARCH REPORT

Application Number
EP 07 11 0426

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	US 4 573 439 A (KASTING EDWARD W [US]) 4 March 1986 (1986-03-04) * abstract; figures *	1	INV. F02F7/00 F01L1/02
A	DE 103 06 392 A1 (VOLKSWAGEN AG [DE]) 26 August 2004 (2004-08-26) * abstract; figures *	1	
A	DE 101 24 856 A1 (BAYERISCHE MOTOREN WERKE AG [DE]) 28 November 2002 (2002-11-28) * abstract; figures *	1	
A	FR 780 109 A (BRISTOL AEROPLANE CO LTD) 19 April 1935 (1935-04-19) * abstract; figures *	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC) F02F F01L F02B
Place of search Munich		Date of completion of the search 19 August 2009	Examiner Vedoato, Luca
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 07 11 0426

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.

19-08-2009

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4573439	A	04-03-1986	NONE	
DE 10306392	A1	26-08-2004	NONE	
DE 10124856	A1	28-11-2002	NONE	
FR 780109	A	19-04-1935	NONE	