

Title (en)

System for detecting the rotation speed of an internal combustion engine camshaft

Title (de)

Vorrichtung zur Drehzahlerfassung von einer Nockenwelle für Brennkraftmaschine

Title (fr)

Dispositif de mesure de la vitesse de rotation d'un arbre à cames de moteur à combustion interne

Publication

**EP 1091096 A1 20010411 (EN)**

Application

**EP 00121777 A 20001005**

Priority

IT MI992090 A 19991006

Abstract (en)

A system (1) for detecting the rotation speed of an internal combustion engine camshaft (2), wherein a toothed timing pulley (4), fitted to the camshaft (2), carries integrally a sound wheel (10) facing a speed sensor (11) for detecting a signal generated by rotation of the sound wheel (10); according to the invention, as opposed to being a conventional toothed wheel, the sound wheel (10) is defined by a magnetic ring (13) made of a magnetized polymer material and carried by a rigid supporting ring (12) fitted integrally to the pulley (4), so as to obtain a stronger, more accurate, "cleaner" signal as compared with that of a conventional toothed sound wheel. <IMAGE>

IPC 1-7

**F01L 1/46**; **F01L 1/053**

IPC 8 full level

**F01L 1/053** (2006.01); **F01L 1/46** (2006.01)

CPC (source: EP)

**F01L 1/053** (2013.01); **F01L 1/46** (2013.01)

Citation (applicant)

EP 0321809 A1 19890628 - BBC BROWN BOVERI & CIE [CH]

Citation (search report)

- [A] US 5549091 A 19960827 - TSUNODA MASAKI [JP], et al
- [A] US 4517934 A 19850521 - PAPEZ STANISLAV [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 03 31 March 1997 (1997-03-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 391 (M - 1298) 19 August 1992 (1992-08-19)

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