

Title (en)
A TYRE PRESSURE SENSOR AND RELATED ALARM SYSTEM

Title (de)
REIFENDRUCKSENSOR UND ALARM-SYSTEM DAZU

Title (fr)
CAPTEUR DE PRESSION POUR PNEU ET SYSTEME D'ALARME CORRESPONDANT

Publication
EP 1085990 A1 20010328 (EN)

Application
EP 99906339 A 19990223

Priority
• GB 9900544 W 19990223
• GB 9803749 A 19980223

Abstract (en)
[origin: WO9942308A1] A tyre pressure sensor and related alarm system uses a sensor (100) which has a threaded collar (106) and is adapted to be connected to a valve of a tyre. The sensor (100) includes a transducer (12) and a transmitter (9) hermetically sealed in a body. A depressor (104) located on the body, urges against a valve to open it. The body of the sensor (100) may be connected to the threaded collar (106) by way of a shearable collar (120). In use, when first connected to a tyre, the sensor (100) obtains an initial value of the tyre's pressure and stores this initial value. If the pressure of the tyre deviates by more than a predetermined amount from the initial value, for example +/- 15 %, then an alarm signal is transmitted to a receiver which is inside the vehicle. The alarm signal comprises a coded portion and an "id" portion. A (12) bit code is preferably used to ensure sufficient security and this provides approximately 65000 different "id" codes. The invention overcomes problems associated with existing systems, in that the sensor is mounted directly to a valve and it does not require calibrating.

IPC 1-7
B60C 23/04; B60C 23/00

IPC 8 full level
B60C 23/00 (2006.01); **B60C 23/04** (2006.01)

CPC (source: EP)
B60C 23/0433 (2013.01); **B60C 23/0496** (2013.01)

Citation (search report)
See references of WO 9942308A1

Cited by
CN107225920A; US11804118B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9942308 A1 19990826; AU 2631099 A 19990906; CA 2324411 A1 19990826; EP 1085990 A1 20010328; GB 9803749 D0 19980415

DOCDB simple family (application)
GB 9900544 W 19990223; AU 2631099 A 19990223; CA 2324411 A 19990223; EP 99906339 A 19990223; GB 9803749 A 19980223