

Title (en)

Automatic parking permission time information system

Title (de)

Automatisches Parkzeit Informationssystem

Title (fr)

Système automatique d'information de temps de stationnement

Publication

**EP 1638053 B1 20080716 (EN)**

Application

**EP 04022295 A 20040920**

Priority

EP 04022295 A 20040920

Abstract (en)

[origin: EP1638053A1] A vehicle mount device 10 reads the balance of an inserted IC card 20 to transmit data to a roadside device 1. The roadside device 1 calculates and transmits a parking permission time in accordance with balance to the vehicle mount device 10. The vehicle mount device 10 outputs the parking permission time from a display part 15 and a speaker 17. The vehicle mount device 10 monitors an elapse time on the basis of time data from a time measuring part 18. When the elapse time exceeds the parking permission time upon leaving a parking place, the vehicle mount device informs a user of the above-described fact and an insufficient charge. When the parking permission time passes, the roadside device may inform the user of the lapse of the parking permission time through a portable telephone.

IPC 8 full level

**G07B 15/02** (2011.01); **G07C 1/30** (2006.01)

CPC (source: EP)

**G07B 15/02** (2013.01); **G07C 1/30** (2013.01)

Citation (examination)

- EP 0755027 A2 19970122 - TOYOTA MOTOR CO LTD [JP]
- EP 1146482 A2 20011017 - DENSO CORP [JP]
- US 2004104267 A1 20040603 - TAKAKI TAKU [JP], et al

Cited by

CN105321213A; ITTO20131023A1; WO2015087363A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 1638053 A1 20060322; EP 1638053 B1 20080716**; DE 602004015109 D1 20080828

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