

Title (en)
Automatic toll exaction system for urban and extraurban highways, for bridge and tunnel crossings and for accesses to urban areas and car parks

Title (de)
Automatisches Zollabgabesystem für städtische und ausserstädtische Autobahnen, für Brücken und Tunnel und für Zugänge zu städtischen Gebieten und Parkplätzen

Title (fr)
Système de péage automatique pour autoroutes se trouvant en ville et en dehors des villes, pour ponts et tunnels, et pour accès aux zones urbaines et aux parkings

Publication
EP 0425961 B2 19991006 (EN)

Application
EP 90120224 A 19901022

Priority
IT 2212289 A 19891025

Abstract (en)
[origin: EP0425961A2] An automatic toll exaction system which comprises an onboard apparatus (5-9) which can be mounted onboard a motor vehicle (1) for the reception and transmission of messages, the handling and storage of the transactions and for interaction with the user, a personal card suitable (2) for activating the onboard apparatus, identifying the user and storing the payment transactions, and a ground-based apparatus (3,4) for ensuring the linkup with the onboard apparatus (5-9) for the exchange of data and messages, for sensing physical parameters suitable for classifying the vehicle (1) and for performing the processing of the data and parameters supplied by the onboard apparatus (5-9) and sensed by the ground-based apparatus (3,4) itself.

IPC 1-7
G07B 15/00; **G07C 9/00**

IPC 8 full level
G07B 15/06 (2011.01); **G07C 9/00** (2006.01)

CPC (source: EP)
G07B 15/063 (2013.01); **G07C 9/28** (2020.01)

Cited by
EP0798668A3; US6725202B1; US5974397A; JP2015090687A; EP0674292A3; DE4311995A1; DE4311995C2; DE4422418A1; DE4422418B4; CN100368229C; DE4334160A1; EP0982685A3; FR2701614A1; AU676282B2; EP0752688A3; DE4311989A1; DE4339004A1; DE4339004C2; US5451758A; EP1329853A3; EP1583038A1; EP0637002A1; FR2708767A1; DE4305324A1; DE4311996A1; FR2801119A1; DE19534139A1; ES2048027A2; CN109311426A; DE4446649A1; DE4339014A1; DE4339014C2; DE4410450A1; DE4410450C2; EP0722639A4; BE1009253A3; EP0759600A3; FR2732793A1; EP0687996A1; EP0632410A3; DE19614135B4; FR2726385A1; EP0633551A1; FR2707408A1; US5532689A; EP0577328A3; DE4311990A1; US6653946B1; US6317721B1; WO9428514A1; WO9428515A1; WO9611452A1; WO9428509A1; WO9724698A1; WO9428510A1; US11030428B2; WO9418580A1; WO9422112A1; WO2017218946A1; WO2005093370A1; WO9749068A1; WO9428512A1; WO9428511A1

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

DOCDB simple family (publication)
EP 0425961 A2 19910508; **EP 0425961 A3 19911106**; **EP 0425961 B1 19961002**; **EP 0425961 B2 19991006**; AT E143742 T1 19961015; CA 2028459 A1 19910426; DE 69028756 D1 19961107; DE 69028756 T2 19970213; DE 69028756 T3 20000309; DK 0425961 T3 19970317; DK 0425961 T4 20000207; ES 2093626 T3 19970101; ES 2093626 T5 19991201; GR 3022163 T3 19970331; GR 3032086 T3 20000331; IT 1236633 B 19930325; IT 8922122 A0 19891025; IT 8922122 A1 19910425

DOCDB simple family (application)
EP 90120224 A 19901022; AT 90120224 T 19901022; CA 2028459 A 19901024; DE 69028756 T 19901022; DK 90120224 T 19901022; ES 90120224 T 19901022; GR 960403631 T 19961227; GR 990403177 T 19991208; IT 2212289 A 19891025