Title (en)

Roadside communication system

Title (de)

Strassenrandkommunikationsystem

Title (fr)

Système de communication de bord de route

Publication

EP 0843295 A1 19980520 (EN)

Application

EP 97120015 A 19971114

Priority

JP 30276596 A 19961114

Abstract (en)

Antennas 1a and 1b are located above each lanes of the road so that the antennas can communicate with mobile stations which are loaded on vehicles that approache the toll gate along each of the lanes. When a vehicle approaches the toll gate, a beacon detects the vehicle and requests an ID signal toward the mobile station that is loaded on the vehicle. In response, the mobile station transmits an ID signal on a radio frequency toward each of the antennas. Then, the beacon receives the ID signal with each antenna, and analyses the signal voltage levels. Then, the beacon selects an antenna which provided the highest voltage signal, and proceeds communication between the mobile station with the antenna of the highest level. <IMAGE>

IPC 1-7

G08G 1/017

IPC 8 full level

G07B 15/00 (2011.01); **G08G 1/017** (2006.01); **H04B 7/26** (2006.01); **H04W 4/04** (2009.01); **H04W 4/24** (2009.01); **H04W 16/30** (2009.01)

CPC (source: EP)

G07B 15/063 (2013.01); **G08G 1/017** (2013.01)

Citation (search report)

- [XA] EP 0567905 A2 19931103 - BOSCH GMBH ROBERT [DE]
- [X] EP 0613108 A1 19940831 - TEXAS INSTRUMENTS INC [US]
- [A] EP 0249951 A1 19871223 - SUMITOMO ELECTRIC INDUSTRIES [JP]

Cited by

GB2375871A; GB2375871B; US6781523B2; WO2016054994A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 0843295 A1 19980520; JP 2974972 B2 19991110; JP H10145288 A 19980529

DOCDB simple family (application)

EP 97120015 A 19971114; JP 30276596 A 19961114