

Title (en)
Mobile radio system.

Title (de)
Mobilfunksystem.

Title (fr)
Système de radio mobile.

Publication
EP 0199266 A1 19861029 (DE)

Application
EP 86105205 A 19860415

Priority
DE 3513929 A 19850417

Abstract (en)
1. Mobile radio system or producing telephone connections from and to vehicles (F) via radio links between vehicle-side mobile radio sets (MB) and stationary base stations (FuKo), the geographical area covered by the system being subdivided into a multiplicity of partially overlapping radio zones (Z1 to Zn) and each radio zone having a base station (FuKo) permanently assigned to it and in each case locating devices being provided in order to identify the radio zone (Z1 to Zn) corresponding to the location of the vehicle and to assign the mobile radio set (MB) to the base station corresponding to this radio zone, characterized in that in the vehicles (F) in each case a navigation unit (N) is provided which determines the location data of the vehicle by means of a vehicle-own dead-reckoning navigation system (KON), these data being corrected on passing stationary beacons with the beacon location data received thereby, and in that the mobile radio system is configured in such a way that the location data in each case determined in the navigation unit (N) are transmitted to the mobile radio set (MB) of the vehicle (F) and in that the mobile radio set (MB) evaluates these location data by comparison with the local data of the individual radio zones (Z1 to Zn) to determine the associated radio zone or the associated base station (FuKo).

Abstract (de)
Für die Positionsbestimmung eines Fahrzeuges (F) mit einem Mobilfunkgerät (MB) und für dessen Zuordnung zu einer Funkzelle bzw. einem bestimmten Funkkonzentrator (FuKo) wird ein im Fahrzeug als Teil eines Zielführungssystems angeordnetes Navigationsgerät (N) verwendet. Das Navigationsgerät (N) erhält jeweils beim Passieren einer Bake (BK) genaue Standortdaten und aktualisiert diese während der Fahrt mit Hilfe einer Koppelnavigationseinrichtung (KON). Das Mobilfunkgerät (MB) übernimmt die im Navigationsgerät (N) ermittelten Positionsdaten und überträgt sie an die Funkkonzentratoren (FuKo) bzw. ermittelt selbständig, in welcher Funkzelle sich das Fahrzeug befindet. Damit entfällt eine eigene Positionsbestimmung über die Funkkonzentratoren.

IPC 1-7
H04Q 7/04

IPC 8 full level
G08G 1/133 (2006.01)

CPC (source: EP)
G08G 1/133 (2013.01)

Citation (search report)
• [YD] EP 0021060 A1 19810107 - SIEMENS AG [DE]
• [A] US 4475010 A 19841002 - HUENSCH GEORGE D [US], et al
• [A] DE 3335128 A1 19850411 - SIEMENS AG [DE]
• [Y] PATENTS ABSTRACTS OF JAPAN, Band 6, Nr. 259 (E-149)[1137], 17. Dezember 1982, Seite 1 E 149; & JP - A - 57 154 952 (MATSUSHITA DENKI SANGYO K.K.) 24-09-1982
• [A] PATENTS ABSTRACTS OF JAPAN, Band 6, Nr. 254 (E-148)[1132], 14. Dezember 1982, Seite 15 E 148; & JP - A - 57 152 241 (FUJITSU TEN K.K.) 20-09-1982

Cited by
US6061558A; EP0546758A3; CN1081563C; EP0984639A3; EP0333330A1; EP0292182A3; EP0666007A4; USRE35916E; EP0510169A4; GB2353910A; US5546445A; EP0615392A1; EP0290725A3; EP1209930A3; GB2283873A; ES2102319A1; GB2283873B; US5588043A; US5621784A; US5629975A; US5642398A; GB2271692A; GB2271692B; EP0451694A3; US6738628B1; US6898432B1; US7099625B1; US5299132A; US5519621A; EP0744727A3; US5652707A; US5832394A; US5884221A; US6148202A; DE3932029A1; US2011191024A1; EP0501058A3; US9234760B2; WO8912835A1; US6847822B1; US7289763B2

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