

CPC**COOPERATIVE PATENT CLASSIFICATION****G08G**

TRAFFIC CONTROL SYSTEMS (guiding railway traffic, ensuring the safety of railway traffic [B61L](#); arrangement of road signs or traffic signals [E01F 9/00](#); radar or analogous systems, sonar systems, lidar systems specially adapted for traffic control [G01S 13/91](#), [G01S 15/88](#), [G01S 17/88](#); { radar or analogous systems, sonar systems, lidar systems specially adapted for anti-collision purposes [G01S 13/93](#), [G01S 15/93](#), [G01S 17/93](#)}) **C2010.02**

NOTE

This subclass covers:

- identification of traffic offenders; - indicating the position of vehicles for traffic control purposes; - navigation systems for traffic control purposes, i.e. systems in which the navigation is not performed autonomously by or in the vehicles, but where the vehicles are guided by instructions transmitted to them; - indication of free spaces in parking areas.

This subclass does not cover:

- arrangements for measuring levels and bearings for surveillance and navigation, which are covered by [G01C](#); - radio navigation systems, e.g. for locating, measuring distances or velocity, which are covered by [G01S](#); - details of display instrumentation, which are covered by [G09F](#), [G09G](#)

G08G 1/00

Traffic control systems for road vehicles (arrangement of road signs or traffic signals [E01F 9/00](#); {(automatic vehicle control [B62D](#))})

WARNING

Groups [G08G 1/22](#) - [G08G 1/20](#) do not correspond to former or current IPC groups. Concordance CPC : IPC for these groups is as follows: - [G08G 1/20](#) : [G08G 1/123](#) - [G08G 1/22](#) : [G08G 1/16](#)

G08G 1/005

. including pedestrian guidance indicator

G08G 1/01

. Detecting movement of traffic to be counted or controlled ([G08G 1/07](#) to [G08G 1/14](#) take precedence)

G08G 1/0104

.. {Measuring and analyzing of parameters relative to traffic conditions}

G08G 1/0108

... { based on the source of data}

G08G 1/0112

.... { from the vehicle, e.g. floating car data [FCD]}

G08G 1/0116

.... { from roadside infrastructure, e.g. beacons}

G08G 1/012

.... { from other sources than vehicle or roadside beacons, e.g. mobile networks}

G08G 1/0125

... { Traffic data processing}

G08G 1/0129	....	{ for creating historical data or processing based on historical data}
G08G 1/0133	....	{ for classifying traffic situation}
G08G 1/0137	...	{ for specific applications}
G08G 1/0141	....	{ for traffic information dissemination}
G08G 1/0145	....	{ for active traffic flow control}
G08G 1/015	..	with provision for distinguishing between two or more types of vehicles, e.g. between motor-cars and cycles
G08G 1/017	..	identifying vehicles (G08G 1/015 , G08G 1/054 take precedence)
G08G 1/0175	...	{by photographing vehicles, e.g. when violating traffic rules}
G08G 1/02	..	using treadles built into the road (pads or other sensitive devices responsive to passage of vehicles E01F 11/00)
G08G 1/04	..	using optical or ultrasonic detectors
G08G 1/042	..	using inductive or magnetic detectors
G08G 1/048	..	with provision for compensation of environmental or other condition, e.g. snow, vehicle stopped at detector
G08G 1/052	..	with provision for determining speed or overspeed ({ speed measuring in general G01P })
G08G 1/054	...	photographing speeding vehicles
G08G 1/056	..	with provision for distinguishing direction of travel
G08G 1/065	.	by counting the vehicles in a section of the road or in a parking area, i.e. comparing incoming count with outgoing count
G08G 1/07	.	Controlling traffic signals
G08G 1/075	..	{ Ramp control }
G08G 1/08	..	according to detected number or speed of vehicles
G08G 1/081	..	Plural intersections under common control
G08G 1/082	...	Controlling the time between beginning of the same phase of a cycle at adjacent intersections
G08G 1/083	...	Controlling the allocation of time between phases of a cycle
G08G 1/085	..	using a free-running cyclic timer
G08G 1/087	..	Override of traffic control, e.g. by signal transmitted by an emergency vehicle
G08G 1/09	.	Arrangements for giving variable traffic instructions ({ railroad crossing signals B61L ; reflectors E01F , G08B }; indicating arrangements for variable information by selection or combination of individual elements G09F 9/00)
G08G 1/091	..	{ Traffic information broadcasting (broadcasting communication H04H) }
G08G 1/092	...	{ Coding or decoding of the information}
G08G 1/093	...	{ Data selection, e.g. prioritizing information, managing message queues, selecting the information to be output}
G08G 1/094	...	{ Hardware aspects; Signal processing or signal properties, e.g. frequency bands}
G08G 1/095	..	Traffic lights
G08G 1/0955	...	transportable
G08G 1/096	..	provided with indicators in which a mark progresses showing the time elapsed, e.g. of green phase

G08G 1/0962	..	having an indicator mounted inside the vehicle, e.g. giving voice messages
G08G 1/09623	...	{ Systems involving the acquisition of information from passive traffic signs by means mounted on the vehicle (G08G 1/0967 takes precedence)}
G08G 1/09626	...	{ where the origin of the information is within the own vehicle, e.g. a local storage device, digital map}
G08G 1/0965	...	responding to signals from another vehicle, e.g. emergency vehicle
G08G 1/0967	...	Systems involving transmission of highway information, e.g. weather, speed limits (transmission of navigation instructions to the vehicle G08G 1/0968)
G08G 1/096708	....	{ where the received information might be used to generate an automatic action on the vehicle control}
G08G 1/096716	.....	{ where the received information does not generate an automatic action on the vehicle control}
G08G 1/096725	.....	{ where the received information generates an automatic action on the vehicle control}
G08G 1/096733	....	{ where a selection of the information might take place}
G08G 1/096741	.....	{ where the source of the transmitted information selects which information to transmit to each vehicle}
G08G 1/09675	.....	{ where a selection from the received information takes place in the vehicle}
G08G 1/096758	.....	{ where no selection takes place on the transmitted or the received information}
G08G 1/096766	....	{ where the system is characterised by the origin of the information transmission}
G08G 1/096775	.....	{ where the origin of the information is a central station}
G08G 1/096783	.....	{ where the origin of the information is a roadside individual element}
G08G 1/096791	.....	{ where the origin of the information is another vehicle}
G08G 1/0968	...	Systems involving transmission of navigation instructions to the vehicle {(navigation or navigational instruments specially adapted for navigation in a road network G01C 21/26)}
G08G 1/096805	....	{ where the transmitted instructions are used to compute a route}
G08G 1/096811	.....	{ where the route is computed offboard}
G08G 1/096816	.....	{ where the complete route is transmitted to the vehicle at once}
G08G 1/096822	.....	{ where the segments of the route are transmitted to the vehicle at different locations and times}
G08G 1/096827	.....	{ where the route is computed onboard}
G08G 1/096833	....	{ where different aspects are considered when computing the route}
G08G 1/096838	.....	{ where the user preferences are taken into account or the user selects one route out of a plurality}
G08G 1/096844	.....	{ where the complete route is dynamically recomputed based on new data}
G08G 1/09685	.....	{ where the complete route is computed only once and not updated}
G08G 1/096855	....	{ where the output is provided in a suitable form to the driver (details on I/O arrangements for onboard navigation computers G01C 21/36)}
G08G 1/096861	.....	{ where the immediate route instructions are output to the driver, e.g. arrow signs for next turn}

G08G 1/096866	.....	{ where the complete route is shown to the driver}
G08G 1/096872	.....	{ where instructions are given per voice}
G08G 1/096877	....	{ where the input to the navigation device is provided by a suitable I/O arrangement (details of I/O arrangements for onboard navigation computers G01C 21/36 ; I/O arrangements for general purpose computers G06F 3/00)}
G08G 1/096883	.....	{ where input information is obtained using a mobile device, e.g. a mobile phone, a PDA}
G08G 1/096888	.....	{ where input information is obtained using learning systems, e.g. history databases}
G08G 1/096894	.....	{ where input is assisted by the navigation device, i.e. the user does not type the complete name of the destination, e.g. using zip codes, telephone numbers, progressively selecting from initial letters}
G08G 1/0969	....	having a display in the form of a map
G08G 1/097	.	Supervising of traffic control systems, e.g. by giving an alarm if two crossing streets have green light simultaneously
G08G 1/123	.	indicating the position of vehicles, e.g. scheduled vehicles; {Managing passenger vehicles circulating according to a fixed timetable, e.g. buses, trains, trams} (transmission of navigation instructions to vehicles G08G 1/0968)
G08G 1/127	..	to a central station; {Indicators in a central station}
G08G 1/13	...	the indicator being in the form of a map
G08G 1/133	..	within the vehicle; {Indicators inside the vehicles or at stops}
G08G 1/137	...	the indicator being in the form of a map
G08G 1/14	.	Indicating individual free spaces in parking areas
G08G 1/141	..	{ with means giving the indication of available parking spaces}
G08G 1/142	...	{ external to the vehicles}
G08G 1/143	...	{ inside the vehicles}
G08G 1/144	...	{ on portable or mobile units, e.g. personal digital assistant [PDA]}
G08G 1/145	..	{ where the indication depends on the parking areas}
G08G 1/146	...	{ where the parking area is a limited parking space, e.g. parking garage, restricted space}
G08G 1/147	...	{ where the parking area is within an open public zone, e.g. city centre}
G08G 1/148	...	{ Management of a network of parking areas}
G08G 1/149	..	{ coupled to means for restricting the access to the parking space, e.g. authorization, access barriers, indicative lights}
G08G 1/16	.	Anti-collision systems (road vehicle drive control systems for predicting or avoiding probable or impending collision otherwise than by control of a particular sub-unit B60W 30/08)
G08G 1/161	..	{Decentralised systems, e.g. inter-vehicle communication}
G08G 1/162	...	{event-triggered}
G08G 1/163	...	{involving continuous checking}
G08G 1/164	..	{Centralised systems, e.g. external to vehicles}
G08G 1/165	..	{ for passive traffic, e.g. including static obstacles, trees}
G08G 1/166	..	{ for active traffic, e.g. moving vehicles, pedestrians, bikes}
G08G 1/167	..	{ Driving aids for lane monitoring, lane changing, e.g. blind spot detection}

- G08G 1/168 . . { Driving aids for parking, e.g. acoustic or visual feedback on parking space}
- G08G 1/20 . { Monitoring the location of vehicles belonging to a group, e.g. fleet of vehicles, countable or determined number of vehicles}
- G08G 1/202 . . { Dispatching vehicles on the basis of a location, e.g. taxi dispatching}
- G08G 1/205 . . { Indicating the location of the monitored vehicles as destination, e.g. accidents, stolen, rental}
- G08G 1/207 . . { with respect to certain areas, e.g. forbidden or allowed areas with possible alerting when inside or outside boundaries}
- G08G 1/22 . { Platooning, i.e. convoy of communicating vehicles }

G08G 3/00 **Traffic control systems for marine craft** (marking of navigational route [B63B 22/16](#), [B63B 51/00](#))

- G08G 3/02 . Anti-collision systems

G08G 5/00 **Traffic control systems for aircraft, { e.g. air-traffic control [ATC] }**

NOTE

1. This groups covers arrangements, located in the aircraft or on the ground, for controlling aircraft within a traffic environment.
2. This group does not cover arrangements for control of position, course, altitude or attitude of aircraft not specific to a traffic environment, e.g. automatic pilots, which are covered by group [G05D 1/00](#).
3. In this group the following term is used with the meaning indicated: - "traffic" includes traffic on the ground and in the air.
4. Attention is drawn to the following places which might be interesting for search:
 - mechanical aspects of equipment for fitting in or to aircraft [B64D](#)
 - combined instruments indicating more than one navigational value [G01C 23/00](#)

- G08G 5/0004 . { Transmission of traffic-related information to or from an aircraft (airborne radio transmission systems in general [H04B 7/185](#); airborne wireless networks [H04W 84/06](#))}
- G08G 5/0008 . . { with other aircraft}
- G08G 5/0013 . . { with a ground station}
- G08G 5/0017 . { Arrangements for implementing traffic-related aircraft activities, e.g. arrangements for generating, displaying, acquiring or managing traffic information (head-up displays [G02B 27/01](#); ground or aircraft-carrier-deck-installations [B64F](#))}
- G08G 5/0021 . . { located in the aircraft}
- G08G 5/0026 . . { located on the ground}
- G08G 5/003 . { Flight plan management}
- G08G 5/0034 . . { Assembly of a flight plan}
- G08G 5/0039 . . { Modification of a flight plan}
- G08G 5/0043 . { Traffic management of multiple aircrafts from the ground ([G08G 5/003](#) takes precedence; data processing specially designed for resource management, e.g. scheduling or allocating time, human or machine resources [G06Q 10/06](#))}

G08G 5/0047	. { Navigation or guidance aids for a single aircraft (details of equipment G08G 5/0017)}
G08G 5/0052	.. { for cruising (combined instruments indicating more than one navigational value G01C 23/00)}
G08G 5/0056	.. { in an emergency situation, e.g. hijacking}
G08G 5/006	.. { in accordance with predefined flight zones, e.g. to avoid prohibited zones}
G08G 5/0065	.. { for taking-off}
G08G 5/0069	.. { specially adapted for an unmanned aircraft}
G08G 5/0073	. { Surveillance aids (scene image recognition G06K 9/00624)}
G08G 5/0078	.. { for monitoring traffic from the aircraft (radar or analogous systems specially adapted for traffic control G01S 13/91)}
G08G 5/0082	.. { for monitoring traffic from a ground station (radar or analogous systems specially adapted for traffic control G01S 13/91)}
G08G 5/0086	.. { for monitoring terrain (radar or analogous systems specially adapted for terrain avoidance G01S 13/94)}
G08G 5/0091	.. { for monitoring atmospheric conditions (radar or analogous systems specially adapted for meteorological use G01S 13/95 ; meteorology G01W)}
G08G 5/0095	. { Aspects of air-traffic control not provided for in the other subgroups of this main group}
G08G 5/02	. Automatic { approach or } landing aids, i.e. systems in which flight data of incoming planes are processed to provide landing data (landing aids fitted in or to aircraft B64D 45/04 ; visual or acoustic landing aids B64F 1/18)
G08G 5/025	.. { Navigation or guidance aids (radar or analogous systems specially adapted for landing purposes G01S 13/913)}
G08G 5/04	. Anti-collision systems
G08G 5/045	.. { Navigation or guidance aids, e.g. determination of anti-collision maneuvers (radar or analogous systems specially adapted for anti-collision between aircraft G01S 13/9303)}
G08G 5/06	. for control when on the ground
G08G 5/065	.. { Navigation or guidance aids, e.g. for taxiing or rolling}
G08G 7/00	Traffic control systems for simultaneous control of two or more different kinds of craft
G08G 7/02	. Anti-collision systems
G08G 9/00	Traffic control systems for craft where the kind of craft is irrelevant or unspecified
G08G 9/02	. Anti-collision systems
G08G 99/00	Subject matter not provided for in other groups of this subclass