# **CPC** COOPERATIVE PATENT CLASSIFICATION

# G PHYSICS

(NOTES omitted)

# **INSTRUMENTS**

## G08 SIGNALLING

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})

#### NOTES

- 1. 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.
- 2. This subclass does not cover:
  - arrangements for measuring levels and bearings for surveillance and navigation, which are covered by <u>G01C</u>;
  - 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

#### WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00	<b>Traffic control systems for road vehicles</b> (arrangement of road signs or traffic signals	1/0175	• • {by photographing vehicles, e.g. when violating traffic rules}
1/005 1/01	<ul> <li><u>E01F 9/00</u> {; automatic vehicle control <u>B62D</u>})</li> <li>including pedestrian guidance indicator</li> <li>Detecting movement of traffic to be counted</li> </ul>	1/02	• using treadles built into the road (pads or other sensitive devices responsive to passage of vehicles <u>E01F 11/00</u> )
	or controlled ( <u>G08G 1/07</u> - <u>G08G 1/14</u> take precedence)	1/04 1/042	<ul> <li>using optical or ultrasonic detectors</li> <li>using inductive or magnetic detectors</li> </ul>
1/0104 1/0108	<ul> <li>. {Measuring and analyzing of parameters relative to traffic conditions}</li> <li>. {based on the source of data}</li> </ul>	1/048	• with provision for compensation of environmental or other condition, e.g. snow, vehicle stopped at detector
1/0112	<ul> <li> {from the vehicle, e.g. floating car data [FCD]}</li> </ul>	1/052	<ul> <li>with provision for determining speed or overspeed {(speed measuring in general <u>G01P</u>)}</li> </ul>
1/0116	• • • {from roadside infrastructure, e.g. beacons}	1/054	photographing overspeeding vehicles
1/012	• • • { from other sources than vehicle or roadside beacons, e.g. mobile networks }	1/056	• • with provision for distinguishing direction of travel
1/0125 1/0129	<ul> <li> {Traffic data processing}</li> <li> {for creating historical data or processing based on historical data}</li> </ul>	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
1/0133	• • • {for classifying traffic situation}	1/07	Controlling traffic signals
1/0137	• • { for specific applications }	1/075	• • {Ramp control}
1/0141	• • • { for traffic information dissemination }	1/08	according to detected number or speed of vehicles
1/0145	• • • { for active traffic flow control }	1/081	• Plural intersections under common control
1/015	• with provision for distinguishing between two or more types of vehicles, e.g. between motor-cars	1/082	Controlling the time between beginning of the same phase of a cycle at adjacent intersections
1/017	and cycles <ul> <li>identifying vehicles (<u>G08G 1/015, G08G 1/054</u>)</li> </ul>	1/083	• • Controlling the allocation of time between phases of a cycle
	take precedence)	1/085	• • using a free-running cyclic timer

# G08G

1/087	•	• Override of traffic control, e.g. by signal transmitted by an emergency vehicle
1/09	•	Arrangements for giving variable traffic instructions
		({railroad crossing signals <u>B61L</u> ; reflectors <u>E01F</u> ,
		<u>G08B</u> ; indicating arrangements for variable information by selection or combination of
		individual elements G09F 9/00)
1/091		• {Traffic information broadcasting (broadcasting
		communication <u>H04H</u> )}
1/092	•	• • {Coding or decoding of the information}
1/093	•	• • {Data selection, e.g. prioritizing information,
		managing message queues, selecting the
1/00/		information to be output}
1/094	•	• {Hardware aspects; Signal processing or signal properties, e.g. frequency bands}
1/095		• Traffic lights
1/0955		• transportable
1/096	•	• provided with indicators in which a mark
		progresses showing the time elapsed, e.g. of green
		phase
1/0962	•	• having an indicator mounted inside the vehicle,
1/09623		<ul><li>e.g. giving voice messages</li><li>{Systems involving the acquisition of</li></ul>
1/09023	•	information from passive traffic signs by means
		mounted on the vehicle ( <u>G08G 1/0967</u> takes
		precedence)}
1/09626	•	• • {where the origin of the information is within
		the own vehicle, e.g. a local storage device,
1/0065		digital map}
1/0965	•	• responding to signals from another vehicle, e.g. emergency vehicle
1/0967		• Systems involving transmission of highway
		information, e.g. weather, speed limits
		(transmission of navigation instructions to the
1/00/700		vehicle <u>G08G 1/0968</u> )
1/096708	•	• • • {where the received information might be used to generate an automatic action on the
		vehicle control}
1/096716		• • • {where the received information does
		not generate an automatic action on the
		vehicle control}
1/096725	•	• • • • {where the received information generates
1/00/700		an automatic action on the vehicle control}
1/096733	•	• • • {where a selection of the information might take place}
1/096741		• • • {where the source of the transmitted
1/0/07/11	•	information selects which information to
		transmit to each vehicle}
1/09675	•	• • • • {where a selection from the received
1/00 (5 50		information takes place in the vehicle}
1/096758	•	• • • {where no selection takes place on the transmitted or the received information}
1/096766		• • { where the system is characterised by the
1/0/0700	•	origin of the information transmission}
1/096775	•	• • • • {where the origin of the information is a central station}
1/096783	•	• • • • {where the origin of the information is a
1 /00 /== 1		roadside individual element}
1/096791	•	• • • { where the origin of the information is another vehicle }
1/0968		<ul> <li>Systems involving transmission of navigation</li> </ul>
1,0700	•	instructions to the vehicle
1/096805	•	{where the transmitted instructions are used
		to compute a route}

1/096811	• • • • • {where the route is computed offboard}
1/096816	• • • • • { where the complete route is transmitted to the vehicle at once }
1/096822	••••• {where the segments of the route are transmitted to the vehicle at different locations and times}
1/096827	
1/096833	• • • {where different aspects are considered when computing the route}
1/096838	account or the user selects one route out of a plurality}
1/096844	• • • • {where the complete route is dynamically recomputed based on new data}
1/09685	• • • • {where the complete route is computed only once and not updated}
1/096855	•••• {where the output is provided in a suitable form to the driver (details on I/ O arrangements for onboard navigation computers <u>G01C 21/36</u> )}
1/096861	•••• {where the immediate route instructions are output to the driver, e.g. arrow signs for next turn}
1/096866	• • • • {where the complete route is shown to the driver}
1/096872	
1/096877	
	is provided by a suitable I/O arrangement (details of I/O arrangements for onboard navigation computers <u>G01C 21/36</u> ; I/O arrangements for general purpose computers <u>G06F 3/00</u> )}
1/096883	
1/096888	•••• {where input information is obtained using learning systems, e.g. history databases}
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}
1/0969	• • • • having a display in the form of a map
1/097	• Supervising of traffic control systems, e.g. by giving an alarm if two crossing streets have green light simultaneously
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 <u>G08G 1/0968</u> )
1/127	<ul> <li>to a central station {; Indicators in a central station}</li> </ul>
1/13	• • • the indicator being in the form of a map
1/133	<ul> <li>within the vehicle {; Indicators inside the vehicles or at stops}</li> </ul>
1/137	• • • the indicator being in the form of a map
1/14	• indicating individual free spaces in parking areas
1/141	• • {with means giving the indication of available parking spaces}
1/142	• • • {external to the vehicles}
1/143 1/144	{inside the vehicles}
1/144	• • • {on portable or mobile units, e.g. personal digital assistant [PDA]}

# G08G

	• • {where the indication depends on the parking areas}
1/146	• • {where the parking area is a limited parking space, e.g. parking garage, restricted space}
1/147	• • • {where the parking area is within an open public zone, e.g. city centre}
1/148	• • • {Management of a network of parking areas}
1/149	• {coupled to means for restricting the access to the
	parking space, e.g. authorization, access barriers, indicative lights}
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 <u>B60W 30/08</u> )
1/161	• • {Decentralised systems, e.g. inter-vehicle
	communication}
1/162	• • {event-triggered}
1/163	• • • {involving continuous checking}
1/164	• {Centralised systems, e.g. external to vehicles}
1/165	• {for passive traffic, e.g. including static obstacles,
1/105	trees}
1/166	<ul> <li>• {for active traffic, e.g. moving vehicles,</li> </ul>
1/100	pedestrians, bikes}
1/167	• {Driving aids for lane monitoring, lane changing,
1/10/	e.g. blind spot detection}
1/168	• {Driving aids for parking, e.g. acoustic or visual
1/100	feedback on parking space}
1/20	• {Monitoring the location of vehicles belonging
1/20	to a group, e.g. fleet of vehicles, countable or
	determined number of vehicles}
1/202	<ul> <li>{Dispatching vehicles on the basis of a location,</li> </ul>
1/202	e.g. taxi dispatching }
1/205	Indicating the location of the monitored vehicles
1/203	as destination, e.g. accidents, stolen, rental}
1/207	<ul> <li>with respect to certain areas, e.g. forbidden or</li> </ul>
1/207	allowed areas with possible alerting when inside
	and wed areas with possible areating when inside
	or outside boundaries}
1/22	or outside boundaries }
1/22	• {Platooning, i.e. convoy of communicating
1/22	,
1/22 <b>3/00</b>	• {Platooning, i.e. convoy of communicating
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•	combined instruments indicating more than one
	navigational value G01C 23/00

5/0004	• {Transmission of traffic-related information to or from an aircraft (airborne radio transmission systems in general <u>H04B 7/185</u> ; airborne wireless
	networks H04W 84/06)}
5/0008	• • {with other aircraft}
5/0013	• • {with a ground station}
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 <u>B64F</u> )}
5/0021	• {located in the aircraft}
5/0026	• • {located on the ground}
5/003	• {Flight plan management}
5/0034	• • {Assembly of a flight plan}
5/0039	• • {Modification of a flight plan}
5/0043	• {Traffic management of multiple aircrafts from
	the ground ( <u>G08G 5/003</u> takes precedence;
	data processing specially designed for resource management, e.g. scheduling or allocating time,
	human or machine resources G06Q 10/06)}
5/0047	• {Navigation or guidance aids for a single aircraft
5/0017	(details of equipment <u>G08G 5/0017</u> )}
5/0052	• { for cruising (combined instruments indicating
	more than one navigational value <u>G01C 23/00</u> )}
5/0056	• • {in an emergency situation, e.g. hijacking}
5/006	• • {in accordance with predefined flight zones, e.g.
	to avoid prohibited zones}
5/0065	• • {for taking-off}
5/0069	• • {specially adapted for an unmanned aircraft}
5/0073	• {Surveillance aids (scene image recognition
	<u>G06V 20/00</u> )}
5/0078	• • {for monitoring traffic from the aircraft (radar or
	analogous systems specially adapted for traffic control G01S 13/91)}
5/0082	<ul> <li>(for monitoring traffic from a ground station</li> </ul>
5/0002	(radar or analogous systems specially adapted for
	traffic control <u>G01S 13/91</u> )}
5/0086	• • {for monitoring terrain (radar or analogous
	systems specially adapted for terrain avoidance
	<u>G01S 13/935</u> )}
5/0091	• • {for monitoring atmospheric conditions (radar
	or analogous systems specially adapted for
	meteorological use <u>G01S 13/95</u> ; meteorology
5/0005	$\frac{G01W}{1}$
5/0095	• {Aspects of air-traffic control not provided for in the other subgroups of this main group}
5/02	• Automatic {approach or} landing aids, i.e. systems
5/02	in which flight data of incoming planes are
	processed to provide landing data (landing aids
	fitted in or to aircraft <u>B64D 45/04</u> ; visual or acoustic
	landing aids <u>B64F 1/18</u> )
5/025	• • {Navigation or guidance aids (radar or analogous
	systems specially adapted for landing purposes
<b>F</b> (0.4	<u>G01S 13/913</u> )}
5/04	• Anti-collision systems
5/045	• {Navigation or guidance aids, e.g. determination of anti-collision manoeuvers (radar or analogous
	systems specially adapted for anti-collision
	between aircraft <u>G01S 13/933</u> )}
5/06	• for control when on the ground
	C

# G08G

5/065	• • {Navigation or guidance aids, e.g. for taxiing or rolling}
7/00	Traffic control systems for simultaneous control of two or more different kinds of craft
7/02	• Anti-collision systems
9/00	Traffic control systems for craft where the kind of craft is irrelevant or unspecified
9/02	• Anti-collision systems
99/00	Subject matter not provided for in other groups of this subclass