CPC COOPERATIVE PATENT CLASSIFICATION

E FIXED CONSTRUCTIONS

BUILDING

E01 CONSTRUCTION OF ROADS, RAILWAYS, OR BRIDGES

E01F ADDITIONAL WORK, SUCH AS EQUIPPING ROADS OR THE CONSTRUCTION OF PLATFORMS, HELICOPTER LANDING STAGES, SIGNS, SNOW FENCES, OR THE LIKE

WARNINGS

- The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
 E01F 15/10 covered by E01F 15/02
- 2. 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.

Arrangement or construction of additional equipment for roads or railways, Landing stages for helicopters		7/02	Snow fences or similar devices, e.g. devices affording protection against sand drifts or side-wind **The Company of FO4H 17/00 **The Company of FO4H 1
1/00	Construction of {station or like} platforms or refuge islands {or like islands in traffic areas, e.g. intersection or filling-station islands}(general arrangement {of filling stations <u>B60S 5/02</u> ,} of railway platforms { <u>B61B 1/02</u> , of trafficchannelling island at intersections <u>E01C 1/02</u> });	7/025	 effects (fences in general E04H 17/00) • {Devices specially adapted for protecting against wind, e.g. screens, deflectors or attenuators at tunnel or lock entrances (for protecting plants A01G 13/00; portable windscreens, e.g. for beach use E04H 15/003; noise absorption; airfield deflectors for jet gases B64F 1/26)}
	Kerbs specially adapted for islands in traffic areas (specially adapted for guiding, marking or signalling E01F 9/535, for illumination E01F 9/547; lane separators diverting traffic past safety zones	7/04	Devices affording protection against snowslides, avalanches or falling rocks, e.g. avalanche preventing structures, galleries (securing of slopes E02D 17/20; roof snow-traps E04D 13/10)
1/005	 E01F 9/588)} {Portable or movable traffic-area platforms or islands, e.g. portable loading islands, retractable platforms for traffic-directing officer} 	7/045	• • {Devices specially adapted for protecting against falling rocks, e.g. galleries, nets, rock traps (crash-barriers with nets <u>E01F 15/06</u> ; safety arrangements for blasting <u>F42D 5/00</u>)}
3/00	Landing stages for helicopters, e.g. located above buildings (layout of airfields <u>B64F</u> ; buildings or like structures for special purposes <u>E04H</u>)	7/06	• Anti-dazzle arrangements (<u>E01F 8/00</u> takes precedence){; Securing anti-dazzle means to crashbarriers (securing signs or supports therefor to crash-barriers <u>E01F 9/669</u>)}
5/00	Draining the sub-base {, i.e. subgrade or ground-work, e.g. embankment} of roads or {of the} ballastway of railways {or draining-off road surface or ballastway drainage} by trenches, culverts, or conduits {or other specially adapted means}({drainage of the ballastway of railways E01B 11/00; surface drainage of roads E01C 11/224; drainage of soil E02B 11/00;} underground drainage	8/00 8/0005	Arrangements for absorbing or reflecting airtransmitted noise from road or railway traffic (ground installations for reducing aircraft noise B64F 1/26; general building constructions for absorbing or reflecting noise, noise absorption or reflection for buildings E04B 1/74) • {used in a wall type arrangement}
	E02D; conduits for sewerage E03F)	8/0011	• {Plank-like elements}
5/005	• {Culverts (underground siphons <u>E02D 29/08;</u> tunnels or galleries <u>E21D;</u> pipes in general <u>F16L</u>);	8/0017	• • {Plate-like elements (<u>E01F 8/0035</u> takes precedence)}
	Head-structures for culverts, or for drainage-conduit outlets in slopes}	8/0023	 {Details, e.g. foundations (solar cells specially adapted to be used in motorway sound barriers H02S 20/21)}
7/00	Devices affording protection against snow, sand drifts, side-wind effects, snowslides, avalanches or falling rocks (permanently installed heating or blowing devices for roads <u>E01C 11/26</u>); Anti-dazzle arrangements {; Sight-screens for roads, e.g. to mask accident site (<u>E01F 8/00</u> takes precedence)}	8/0029	• {with porous surfaces, e.g. concrete with porous fillers}
		8/0035	• • {with undulated surfaces (<u>E01F 8/0029</u> , <u>E01F 8/0052</u> take precedence)}
		8/0041 8/0047	 {Free-standing grates} {with open cavities, e.g. for covering sunken

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roads}

0.400.50	(0)	0/550	
8/0052	• • • {Grate-style, e.g. as wall facing}	9/553	. Low discrete bodies, e.g. marking blocks, studs or
8/0058	• • • { with damping material, e.g. rockwool,	0/550	flexible vehicle-striking members
0.100 4.4	sand}	9/559	illuminated
8/0064	• • • {Perforated plate or mesh, e.g. as wall facing}	9/565	having deflectable or displaceable parts
8/007	• • • { with damping material }	9/571	displaceable vertically under load, e.g. in
8/0076	• • {Cellular, e.g. as wall facing}	0.4770	combination with rotation
8/0082	• • • {with damping material}	9/573	{Self-righting, upright flexible or rockable
8/0088	• • {Suspended, e.g. ropes or mesh}		markers, e.g. resilient flaps bending over (depressible road surface signs or flexible
8/0094	• {constructions for generation of phase shifting}		vehicle-striking members for audible
8/02	 specially adapted for sustaining vegetation 		warning E01F 9/602)}
	or for accommodating plants (receptacles for	9/576	. Traffic lines
	cultivation of plants A01G 9/02; securing slopes or	9/578	• • • {consisting of preformed elements, e.g.
	inclines <u>E02D 17/20</u> ; retaining or protecting walls <u>E02D 29/02</u>){; Embankment-type or crib-type	2/3/6	tapes, block-type elements specially
	noise barriers; Retaining walls specially adapted		designed or arranged to make up a traffic line
	to absorb or reflect noise (building elements for		(E01F 9/582, E01F 9/588, E01F 9/594 take
	planting walls <u>E04C 1/395</u>)}		precedence; studs, blocks or like markers per se
8/021	• • {with integral support structure}		E01F 9/553)}
8/022	• • {Crib-type (E01F 8/023 takes precedence)}	9/582	illuminated
8/023	• • {made of stacked or staggered elements, e.g.	9/588	Lane delineators for physically separating
0.0_0	hollow}		traffic lanes and discouraging but not
8/024	• • {Beam-type, e.g. square-set}		preventing crossing
8/025	{Gabion-type}	9/594	• • • movable for reuse at different locations
8/026	{Live wall, e.g. interlaced twines}	9/60	 Upright bodies, e.g. marker posts or bollards;
8/027	• • {with external support, e.g. wall facing}		Supports for road signs
8/028	{Through-type, e.g. between adjacent kerbs}	9/602	• • {Upright or projecting signs or signals
			permanently installed directly on or in the
<u>Arrangemen</u>	ts for facilitating the use of roads		roadway and designed to be depressed by rolling or other loads and then to return to
9/00	Arrangement of road signs or traffic signals;		normal position, e.g. collapsible or rockable
2700	Arrangements for enforcing caution (for		stop signs, flexible vehicle-striking members for
	obstructing or restricting traffic <u>E01F 13/00</u>)		audible warning (<u>E01F 9/565</u> , <u>E01F 13/10</u> take
9/20	• Use of light guides, e.g. fibre-optic devices		precedence)}
9/30	Arrangements interacting with transmitters or	9/604	specially adapted for particular signalling
	receivers otherwise than by visible means, e.g. using		purposes, e.g. for indicating curves, road works or
	radar reflectors or radio transmitters (E01F 11/00		pedestrian crossings
	takes precedence)	9/608	• • • for guiding, warning or controlling traffic, e.g.
9/40	Arrangements responsive to adverse atmospheric	0/61	delineator posts or milestones
	conditions, e.g. to signal icy roads or to	9/61	{Special features of delineator posts,
	automatically illuminate in fog; Arrangements		e.g. with parts cantilevered toward the roadway or fixed vertically on a tilted surface
0/50	characterised by heating or drying means		(E01F 9/669, E01F 9/535, E01F 9/576 take
9/50	 Road surface markings; Kerbs or road edgings, specially adapted for alerting road users (for 		precedence)}
	redirecting vehicles <u>E01F 15/00</u>)	9/612	• • • for indicating freshly applied road surface
9/506	• characterised by the road surface marking	27012	markings, e.g. straddling lines
7/300	material, e.g. comprising additives for improving	9/615	illuminated
	friction or reflectivity; Methods of forming,	9/617	• • • • {Illuminated or wired-up posts, bollards,
	installing or applying markings in, on or to road		pillars or like upstanding bodies or structures
	surfaces		for traffic guidance, warning or control
9/512	Preformed road surface markings, e.g. of sheet		(E01F 9/559 takes precedence)
	material; Methods of applying preformed	9/619	with reflectors; with means for keeping
	markings		reflectors clean
9/518	formed <u>in situ</u> , e.g. by painting, by casting	9/623	• characterised by form or by structural features,
	into the road surface or by deforming the road	0.440=	e.g. for enabling displacement or deflection
0/524	surface	9/627	self-righting after deflection or displacement
9/524	Reflecting elements specially adapted for incorporation in or application to road surface	9/629	• • • {Traffic guidance, warning or control posts,
	markings		bollards, pillars or like upstanding bodies or structures}
9/529	specially adapted for signalling by sound or	9/631	• • • specially adapted for breaking, disengaging,
7/327	vibrations, e.g. rumble strips; specially adapted	9/031	collapsing or permanently deforming when
	for enforcing reduced speed, e.g. speed bumps		deflected or displaced, e.g. by vehicle impact
9/535	Kerbs or road edgings specially adapted for	9/635	by shearing or tearing, e.g. having weakened
	alerting road users		zones
9/541	Kerbs	9/638	by connection of stud-and-socket type, e.g.
9/547	illuminated		spring-loaded

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9/642	friction-coupled	13/044	• • {the barrier being formed by obstructing
9/644	• • • {by connection of the "slide-shoe" type}		members situated on, flush with, or below the
9/646	extensible, collapsible or pivotable		traffic surface, e.g. with inflatable members on the surface (E01F 13/08, E01F 13/10
0/65	(<u>E01F 9/627</u> , <u>E01F 9/631</u> take precedence)		take precedence; retractable speed humps
9/65	with rotatable, swingable or adjustable signs or signals (E01F 9/646 takes precedence)		E01F 9/529)}
9/654		13/046	• • • {the obstructing members moving up in a
9/034	cones; capable of assuming three-dimensional		translatory motion, e.g. telescopic barrier posts
	form, e.g. by inflation or erection to form a		(for lane control <u>E01F 9/594</u>)}
	geometric body	13/048	• • { with obstructing members moving in a
9/658	characterised by means for fixing		translatory motion, e.g. vertical lift barriers,
9/662	mounted on vehicles, e.g. service vehicles;		sliding gates (<u>E01F 13/046</u> , <u>E01F 13/105</u> take
	Warning vehicles travelling along with road-	12/06	precedence)}
	maintenance, e.g. remotely controlled	13/06	 by swinging into open position about a {vertical or} horizontal axis parallel to the road direction,
9/669	for fastening to safety barriers or the like		i.e. swinging gates
9/673	• • • for holding sign posts or the like	13/065	• • • { specially adapted for individual parking
9/675	• • • {Glued to surface, e.g. road}		spaces}
9/677	• • • • the sign posts being removable without tools,	13/08	by swinging into closed position about a
9/681	e.g. of stud-and-socket type the sign posts being fastened by removable		transverse axis situated in the road surface, e.g.
9/001	means, e.g. screws or bolts		tiltable sections of the road surface, tiltable
9/685	Subsoil means, e.g. foundations	12/002	parking posts
9/688	Free-standing bodies	13/085	• • • {specially adapted for individual parking
9/692	Portable base members therefor	13/10	spaces} . Vehicle barriers specially adapted for allowing
9/696	Overhead structures, e.g. gantries; Foundation	13/10	passage in one direction only
	means specially adapted therefor	13/105	• • {depressible by right-way traffic, e.g. pivotally;
9/70	• • Storing, transporting, placing or retrieving		actuated by wrong-way traffic (type-disabling
	portable devices		elements <u>E01F 13/123</u>)}
11/00	{Road engineering aspects of} Embedding	13/12	 for forcibly arresting or disabling vehicles, e.g.
	pads or other sensitive devices in paving or		spiked mats
	other road surfaces {, e.g. traffic detectors,	13/123	• • {depressible or retractable below the traffic
	vehicle-operated pressure-sensitive actuators,		surface, e.g. one-way spike barriers, power-
	devices for monitoring atmospheric or road	12/126	controlled prong barriers} {Pitfall barriers, causing the vehicle to face a
	conditions }(pressure-sensitive elements <u>G01L</u> ; traffic control systems <u>G08G</u>)	13/126	step-like obstruction}
		4.540.0	
13/00	Arrangements for obstructing or restricting	15/00	Safety arrangements for slowing, redirecting or stopping errant vehicles, e.g. guard posts or
	traffic, e.g. gates, barricades (for railway crossings B61L) {; Preventing passage of vehicles of selected		bollards; Arrangements for reducing damage
	category or dimensions (E01F 13/12, E01F 13/126		to roadside structures due to vehicular impact
	take precedence)}		(arrangements for fastening signs or signals to safety
13/02	• free-standing; {portable, e.g. for guarding open		barriers or the like <u>E01F 9/669</u> ; for forcibly arresting
	manholes (E01F 9/688 takes precedence); Portable		vehicles <u>E01F 13/00</u>)
	signs or signals specially adapted for fitting to	15/003	• {Individual devices arranged in spaced relationship,
	portable barriers}		e.g. buffer bollards (spaced wall-type modules
13/022	• • {Pedestrian barriers; Barriers for channelling or	15/006	E01F 15/08)} • {Lane control by movable lane separating barriers,
	controlling crowds (E01F 13/024, E01F 13/028	13/000	e.g. shiftable barriers, retractable kerbs (E01F 15/12
13/024	take precedence; corrals <u>E04H 17/18</u>)} • • {Removable barriers with permanently installed		takes precedence; by crossable lane separators
13/024	base members, e.g. to provide occasional passage		E01F 9/594); Apparatus or barriers specially
	(E01F 13/028, E01F 15/12 take precedence)}		adapted therefor, e.g. wheeled barriers (wall-type
13/026	{Detachable barrier bollards or parking posts		modules <u>E01F 15/08</u>)}
	(portable signs co-operating with permanent	15/02	Continuous barriers extending along roads or
	base <u>E01F 9/677</u>)}		between traffic lanes (crossable-lane separators
13/028	• • {Flexible barrier members, e.g. cords; Means for	15/025	E01F 9/588) (Combinations of at least two of the
	rendering same conspicuous; Adapted supports,	15/025	{Combinations of at least two of the barrier member types covered by
12/04	e.g. with storage reel}		E01F 15/04 - E01F 15/08, e.g. rolled steel section
13/04	 movable to allow or prevent passage {(E01F 13/12, E01F 15/12 take precedence; removing part of 		or plastic strip backed up by cable, safety kerb
	barrier for occasional passage E01F 13/024; gates		topped by rail barrier}
	for allowing passage through fences E06B 11/02)}	15/04	• • essentially made of longitudinal beams or rigid
13/042	• • {for controlling access to an individual parking		strips {supported above ground at spaced points
	space (E01F 13/026, E01F 13/046, E01F 13/065,	15/0/0=	(E01F 15/10, E01F 15/12 take precedence)}
	E01F 13/085 take precedence)}	15/0407	• • • {Metal rails (<u>E01F 15/0446</u> and <u>E01F 15/0453</u>
			take precedence)}

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15/0415	• • • { with pivoting members }
15/0423	• • • • {Details of rails (<u>E01F 15/0415</u> takes
	precedence)}
15/043	• • • • { with multiple superimposed members;
	Rails provided with skirts}
15/0438	• • • • {Spacers between rails and posts, e.g.
	energy-absorbing means (E01F 15/0415
	takes precedence)}
15/0446	{Concrete rails (<u>E01F 15/0476</u> takes
	precedence; safety kerbs or walls <u>E01F 15/08</u>)}
15/0453	{Rails of materials other than metal or
	concrete, e.g. wood, plastics; Rails of different
	materials, e.g. rubber-faced metal profiles,
	concrete-filled steel tubes (E01F 15/0476
	takes precedence; reinforced concrete rails E01F 15/0446)}
15/0461	• • {Supports, e.g. posts (roadside posts in general
13/0401	E01F 9/60)}
15/0469	• • • {Covers, e.g. of ground surface around the
13/0407	foot}
15/0476	• • • {Foundations}
15/0484	{Installing; Repairing; Adjusting}
15/0492	• • • {Provisions for guiding in combination with
	rails, e.g. tire-gutters}
15/06	• essentially made of cables, nettings or the like
	(E01F 15/10, E01F 15/12 take precedence;
	protection against falling rocks E01F 7/04;
	arresting gear for aircraft <u>B64F 1/02</u>)
15/065	• • • {the barrier members being made of essentially
	non-metallic materials, e.g. natural or synthetic
	fibres or webbing}
15/08	• essentially made of walls or wall-like elements
	(<u>E01F 15/10</u> , <u>E01F 15/12</u> take precedence){;
4.7.10.04	Cable-linked blocks}
15/081	• • • {characterised by the use of a specific material}
15/083	{using concrete}
15/085	{using metal}
15/086	• • • {using plastic, rubber or synthetic materials}
15/088	• • • {Details of element connection}
15/10	• • portable, e.g. for temporary use {not used}
15/12	and having means for providing occasional
	passage, e.g. for emergency vehicles
15/14	• specially adapted for local protection, e.g. for bridge
	piers, for traffic islands
15/141	• • {for column or post protection}
15/143	• • {Protecting devices located at the ends of barriers
	(E01F 15/145 takes precedence)
15/145	{Means for vehicle stopping using impact energy
15/11	absorbers}
15/146	{fixed arrangements}
15/148	• • • {mobile arrangements}

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