

# CPC COOPERATIVE PATENT CLASSIFICATION

## B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

### TRANSPORTING

#### B60 VEHICLES IN GENERAL

(NOTE omitted)

#### B60R VEHICLES, VEHICLE FITTINGS, OR VEHICLE PARTS, NOT OTHERWISE PROVIDED FOR

##### NOTE

Attention is drawn to the Note following the title of class [B60](#)

##### 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.

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| <p><b>1/00</b>    <b>Optical viewing arrangements</b> ({house mirrors and spies <a href="#">A47G 1/00</a>; } ant glare equipment, e.g. polarising, for windscreens or windows <a href="#">B60J 3/00</a>; {visual aids for tractors <a href="#">B62D 49/0614</a>; } devices <a href="#">per se G02B</a>)</p> <p>1/001    . {integrated in the windows, e.g. Fresnel lenses}</p> <p>1/002    . {specially adapted for covering the peripheral part of the vehicle, e.g. for viewing tyres, bumpers or the like (integrated in the windows <a href="#">B60R 1/001</a>; combined with rear-view mirrors <a href="#">B60R 1/08</a>)}</p> <p>1/003    . . {for viewing trailer hitches}</p> <p>1/005    . {specially adapted for viewing traffic-lights}</p> <p>1/006    . {Side-view mirrors, e.g. V-shaped mirrors located at the front or rear part of the vehicle (combined with rear-view mirrors <a href="#">B60R 1/08</a>; side-view periscopes <a href="#">B60R 1/10</a>)}</p> <p>1/007    . . {specially adapted for covering the lateral blind spot not covered by the usual rear-view mirror}</p> <p>1/008    . {allowing the driver to see passengers, e.g. for busses (combined with rear-view mirrors <a href="#">B60R 1/08</a>)}</p> <p>1/02    . Rear-view mirror arrangements (periscope arrangements <a href="#">B60R 1/10</a>)</p> <p>1/025    . . {comprising special mechanical means for correcting the field of view in relation to particular driving conditions, e.g. change of lane; scanning mirrors}</p> <p>1/04    . . mounted inside vehicle {(<a href="#">B60R 1/025</a>, <a href="#">B60R 1/08</a> take precedence)}</p> <p>1/06    . . mounted on vehicle exterior {(<a href="#">B60R 1/025</a>, <a href="#">B60R 1/08</a> take precedence)}</p> <p>1/0602    . . . {comprising means for cleaning or deicing}</p> <p>1/0605    . . . {specially adapted for mounting on trucks, e.g. by C-shaped support means}</p> <p>1/0607    . . . . {with remote position control adjustment}</p> <p>1/061    . . . . . {by manually actuated mechanical means, e.g. push-pull cables}</p> <p>1/0612    . . . . . {by electrically actuated means}</p> <p>1/0615    . . . . . {by hydraulically or pneumatically actuated means}</p> | <p>1/0617    . . . . . {foldable along the vehicle, e.g. in case of external force applied thereon}</p> <p>1/062    . . . . with remote control for adjusting position {(<a href="#">B60R 1/0607</a> takes precedence)}</p> <p>1/0625    . . . . . {by hydraulically or pneumatically powered actuators}</p> <p>1/064    . . . . . by manually powered actuators</p> <p>1/066    . . . . . for adjusting the mirror relative to its housing</p> <p>1/068    . . . . . using cables</p> <p>1/07    . . . . . by electrically powered actuators</p> <p>1/072    . . . . . for adjusting the mirror relative to its housing</p> <p>1/074    . . . . . for retracting the mirror arrangements to a non-use position alongside the vehicle</p> <p>1/076    . . . . yieldable to excessive external force and provided with an indexed use position {(<a href="#">B60R 1/0617</a>, <a href="#">B60R 1/074</a> take precedence)}</p> <p>1/078    . . . . easily removable; mounted for bodily outward movement, e.g. when towing</p> <p>1/08    . . . involving special optical features, e.g. avoiding blind spots {, e.g. convex mirrors; Side-by-side associations of rear-view and other mirrors (<a href="#">B60R 1/025</a>, <a href="#">B60R 1/10</a> take precedence)}</p> <p>1/081    . . . . {avoiding blind spots, e.g. by using a side-by-side association of mirrors}</p> <p>1/082    . . . . {using a single wide field mirror or an association of rigidly connected mirrors}</p> <p>1/083    . . . . {Anti-glare mirrors, e.g. "day-night" mirrors}</p> <p>1/084    . . . . . {using a removable filtering or hiding screen (associated with windows or windscreens <a href="#">B60J 3/00</a>)}</p> <p>1/085    . . . . . {using a combination of interchangeable reflecting surfaces, e.g. reversible mirrors}</p> <p>1/086    . . . . . {using a mirror angularly movable between a position of use and a non-glare position reflecting a dark field to the user, e.g. situated behind a transparent glass used as low-reflecting surface; Wedge-shaped mirrors}</p> |
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1/087	. . . . {with remote or automatic control means}	5/041	. . {extensible externally of the vehicle body, e.g. to create an open luggage compartment of increased capacity (devices for anchoring the boot lid while carrying oversized objects <a href="#">E05C 17/042</a> )}
1/088	. . . . {using a cell of electrically changeable optical characteristic, e.g. liquid-crystal or electrochromic mirrors}	5/042	. . . {to create an enclosed luggage compartment of increased capacity, e.g. with ventilation apertures for transporting dogs}
1/089	. . . . {using a liquid filtering layer of variable thickness}	5/044	. . {luggage covering means, e.g. parcel shelves}
1/10	. Front-view mirror arrangements; {(specially adapted for covering the peripheral part of the vehicle <a href="#">B60R 1/002</a> )}; Periscope arrangements {, i.e. optical devices using combinations of mirrors, lenses, prisms or the like (specially adapted for covering the peripheral part of the vehicle <a href="#">B60R 1/002</a> ; for viewing traffic-lights <a href="#">B60R 1/005</a> ); Other mirror arrangements giving a view from above or under the vehicle}	5/045	. . . {collapsible or transformable}
1/105	. . {Optical arrangements giving a view under the vehicle, e.g. using periscopes}	5/047	. . . . {collapsible by rolling-up}
1/12	. Mirror assemblies combined with other articles, e.g. clocks	5/048	. . . . {of accordion-type, i.e. collapsible by sliding and folding}
1/1207	. . {with lamps; with turn indicators}	7/00	<b>Stowing or holding appliances inside vehicle primarily intended for personal property smaller than suit-cases, e.g. travelling articles, or maps (for radio sets, television sets, telephones or the like, mounting of cameras operative during drive, tools, or spare parts <a href="#">B60R 11/00</a>; for receptacles for refuse, food, beverages, cigarettes <a href="#">B60N</a>)</b>
2001/1215	. . {with information displays}	7/005	. {Nets or elastic pockets tensioned against walls or backrests}
2001/1223	. . {with sensors or transducers}	7/02	. in separate luggage compartment {( <a href="#">B60R 7/005</a> takes precedence)}
2001/123	. . {with thermometers}	7/04	. in driver or passenger space {, e.g. using racks ( <a href="#">B60R 7/005</a> , <a href="#">B60R 7/08</a> take precedence)}
2001/1238	. . {with vanity mirrors}	7/043	. . {mounted on or under a seat}
2001/1246	. . {with clocks}	7/046	. . {mounted on door}
2001/1253	. . {with cameras, video cameras or video screens}	7/05	. . mounted on sun visor
2001/1261	. . {with antennae}	7/06	. . mounted on or below dashboards
2001/1269	. . {with sun visors}	7/08	. Disposition of racks, clips {, holders, containers} or the like {for supporting specific articles ( <a href="#">B60R 7/005</a> takes precedence)}
2001/1276	. . {with radio receivers, loud-speakers or buzzers}	7/081	. . {for supporting maps}
2001/1284	. . {with communication systems other than radio-receivers, e.g. keyless entry systems, navigation systems; with anti-collision systems}	7/082	. . {for supporting spectacles}
2001/1292	. . {with holding means for personal articles}	7/084	. . {for supporting tissues or tissue boxes}
3/00	<b>Arrangements of steps {or ladders facilitating access to or on the vehicle}, e.g. running-boards {(construction of steps for railway vehicles <a href="#">B61D 23/00</a>); ladders <a href="#">E06C</a>)}</b>	7/085	. . {for supporting flowers or flower vases}
3/002	. {Running boards (for vehicle tops <a href="#">B60R 3/005</a> ; at the sides of the vehicle for carrying loads <a href="#">B60R 9/02</a> )}	7/087	. . {for stowing money or valuables, e.g. using safes}
3/005	. {Catwalks, running boards for vehicle tops, access means for vehicle tops; Handrails therefor}	7/088	. . {for stowing tape cartridges, compact discs, or the like}
3/007	. {Removable steps or ladders, e.g. foldable (as access means for vehicle tops <a href="#">B60R 3/005</a> )}	7/10	. . for supporting hats, clothes or clothes hangers
3/02	. Retractable steps {or ladders, e.g. movable under shock ( <a href="#">B60R 3/005</a> takes precedence)}	7/12	. . for supporting umbrellas
3/04	. with provisions for shoe scraping	7/14	. . for supporting weapons
5/00	<b>Compartments within vehicle body primarily intended or sufficiently spacious for trunks, suit-cases, or the like (primarily intended for stowing loads in load-transporting vehicles <a href="#">B60P</a>; arrangements for stowing spare wheels <a href="#">B62D 43/00</a>)</b>	9/00	<b>Supplementary fittings on vehicle exterior for carrying loads, e.g. luggage, sports gear or the like</b>
5/003	. {Luggage racks, e.g. for busses (primarily intended for passengers' property smaller than suitcases <a href="#">B60R 7/04</a> ; <a href="#">B60R 7/08</a> ; luggage racks for rail vehicles <a href="#">B61D 37/003</a> )}	9/02	. at the sides, e.g. on running-board
5/006	. {stowing or holding means for elongated articles, e.g. skis inside vehicles}	9/04	. Carriers associated with vehicle roof ( <a href="#">B60R 9/08</a> takes precedence)
5/02	. arranged at front of vehicle {( <a href="#">B60R 5/003</a> takes precedence)}	9/042	. . Carriers characterised by means to facilitate loading or unloading of the load, e.g. rollers, tracks, or the like
5/04	. arranged at rear of vehicle {( <a href="#">B60R 5/003</a> , <a href="#">B60R 5/006</a> take precedence; external trunks arranged at rear of vehicle <a href="#">B60R 9/065</a> )}	9/0423	. . . {for ladders}
		9/0426	. . . {for small vehicles, e.g. invalid chairs, perambulators}
		9/045	. . Carriers being adjustable or transformable, e.g. expansible, collapsible {(transformable into tents <a href="#">B60P 3/36</a> ; into beds <a href="#">B60P 3/38</a> )}
		9/048	. . Carriers characterised by article-gripping {, -covering, -retaining, or -locking means}
		9/0485	. . . {for ladders ( <a href="#">B60R 9/0423</a> takes precedence)}
		9/05	. . Carriers characterised by wind deflecting means (wind deflectors for open roofs <a href="#">B60J 7/22</a> )

9/052	. . Carriers comprising elongate members extending only transversely of vehicle ( <a href="#">B60R 9/08 takes precedence</a> )	2011/0071	. . . . {using latches, clips, clamps, straps or the like}
9/055	. . Enclosure-type carriers, e.g. containers, boxes ( <a href="#">B60R 9/048 takes precedence</a> )	2011/0073	. . . . {using key-type connections}
9/058	. . characterised by releasable attaching means between carrier and roof	2011/0075	. . . . {using a containment or docking space}
9/06	. . at vehicle front or rear ( <a href="#">rear luggage compartments within vehicle extensible externally of the vehicle body B60R 5/041</a> )	2011/0077	. . . . {using adhesive means, e.g. hook and loop fasteners}
9/065	. . {Enclosure-type carriers, e.g. trunks}	2011/0078	. . . . {Quick-disconnect two-parts mounting means}
9/08	. . specially adapted for sports gear ( <a href="#">vehicles specially adapted for carrying aeroplanes, for carrying boats B60P</a> )	2011/008	. . {Adjustable or movable supports}
9/10	. . for cycles	2011/0082	. . . . {collapsible, e.g. for storing after use}
9/12	. . for skis	2011/0084	. . . . {with adjustment by linear movement in their operational position}
<b>11/00</b>	<b>Arrangements for holding or mounting articles, not otherwise provided for</b>	2011/0085	. . . . {with adjustment by rotation in their operational position}
2011/0001	. {characterised by position}	2011/0087	. . . . {around two axes}
2011/0003	. . {inside the vehicle}	2011/0089	. . . . {around three axes, i.e. universally mounted}
2011/0005	. . . {Dashboard}	2011/0091	. . . . . {the article being mounted on a flexible shaft}
2011/0007	. . . {Mid-console}	2011/0092	. . . . {with motorization}
2011/0008	. . . {Ventilation grilles}	2011/0094	. {characterised by means for covering after user, e.g. boxes, shutters or the like}
2011/001	. . . {Vehicle control means, e.g. steering-wheel or column}	2011/0096	. {Theft prevention of articles}
2011/0012	. . . . {Seats or parts thereof}	2011/0098	. . {using electric or electronic means, e.g. alarms, codes}
2011/0014	. . . . . {Arm-rests}	11/02	. for radio sets, television sets, telephones, or the like; Arrangement of controls thereof
2011/0015	. . . . . {Back-rests}	11/0205	. . {for radio sets ( <a href="#">B60R 11/0211 takes precedence</a> )}
2011/0017	. . . . . {Head-rests}	11/0211	. . {for record carriers apparatus, e.g. video recorders, tape players or CD players}
2011/0019	. . . . {Side or rear panels}	11/0217	. . {for loud-speakers}
2011/0021	. . . . . {Doors}	11/0223	. . . . {of flat type}
2011/0022	. . . . . {Pillars}	11/0229	. . {for displays, e.g. cathodic tubes}
2011/0024	. . . . . {Rear shelves}	11/0235	. . . . {of flat type, e.g. LCD}
2011/0026	. . . . {Windows, e.g. windscreen}	11/0241	. . {for telephones}
2011/0028	. . . . {Ceiling, e.g. roof rails}	11/0247	. . {for microphones or earphones}
2011/0029	. . . . {Floor, e.g. side sills, fire wall}	11/0252	. . {for personal computers, e.g. laptops, notebooks}
2011/0031	. . . . {Seat belts}	11/0258	. . {for navigation systems}
2011/0033	. . . . {Rear-view mirrors}	11/0264	. . {for control means}
2011/0035	. . . . {Sun visors}	2011/027	. . {for Din-sized apparatus}
2011/0036	. . . . {Luggage compartment}	2011/0276	. . {for rear passenger use}
2011/0038	. . . . {Engine compartment}	2011/0282	. . {for the use of several passengers, e.g. simultaneously}
2011/004	. . {outside the vehicle}	2011/0288	. . {Apparatus made of several modules independently mounted}
2011/0042	. {characterised by mounting means}	2011/0294	. . {Apparatus with multi-functionalities, e.g. radio and telephone}
2011/0043	. . {for integrated articles, i.e. not substantially protruding from the surrounding parts}	11/04	. Mounting of cameras operative during drive; Arrangement of controls thereof relative to the vehicle
2011/0045	. . . . {with visible part, e.g. flush mounted}	11/06	. for tools or spare parts ( <a href="#">for vehicle roof parts B60J 7/20; for spare wheels B62D</a> )
2011/0047	. . . . . {using hidden fastening means}	<b>13/00</b>	<b>Elements for body-finishing, identifying, or decorating; Arrangements or adaptations for advertising purposes</b>
2011/0049	. . . . {for non integrated articles}	13/005	. {Manufacturers' emblems, name plates, bonnet ornaments, mascots or the like; Mounting means therefor}
2011/005	. . . . {Connection with the vehicle part}	13/01	. Liners for load platforms or load compartments
2011/0052	. . . . . {using screws, bolts, rivets or the like}	13/011	. . {for internal load compartments, e.g. car trunks}
2011/0054	. . . . . {using cigarette lighter}	13/013	. . . . {comprising removable or hinged parts, e.g. for accessing storage compartments}
2011/0056	. . . . . {using suction cups}	2013/015	. . {made of a plurality of visible parts}
2011/0057	. . . . . {using magnetic means}	2013/016	. . {integrating other functions or accessories}
2011/0059	. . . . . {using clips, clamps, straps or the like}		
2011/0061	. . . . . {using key-type connections}		
2011/0063	. . . . . {using adhesive means, e.g. hook and loop fasteners}		
2011/0064	. . . . {Connection with the article}		
2011/0066	. . . . . {using screws, bolts, rivets or the like}		
2011/0068	. . . . . {using suction cups}		
2011/007	. . . . . {using magnetic means}		

2013/018	. . {Connection or positioning of adjacent panels}	13/0861	. . {for covering undersurfaces of vehicles, e.g. wheel houses}
13/02	. {Internal} Trim mouldings {; Internal} Ledges; Wall liners {for passenger compartments}; Roof liners ( <a href="#">B60R 13/01</a> takes precedence {; padded linings for the vehicle interior <a href="#">B60R 21/04</a> ; arrangements or adaptations of floor mats or carpets in vehicles <a href="#">B60N 3/04</a> ; internal lining for trains <a href="#">B61D 17/18</a> })	13/0869	. . {for protecting heat sensitive parts, e.g. electronic components}
13/0206	. . {Arrangements of fasteners and clips specially adapted for attaching inner vehicle liners or mouldings (devices for fastening or securing <a href="#">F16B</a> )}	13/0876	. . {for mounting around heat sources, e.g. exhaust pipes}
13/0212	. . {Roof or head liners (movable head-liners <a href="#">B60J 7/0007</a> )}	13/0884	. . {for mounting around noise sources, e.g. air blowers}
13/0218	. . . {supported by adhesion with the roof panel}	13/0892	. . {for humidity insulation ( <a href="#">sealing strips B60R 13/06</a> )}
13/0225	. . . {self supporting head liners}	13/10	. Registration, licensing, or like devices
13/0231	. . . {specially adapted for roofs with openings}	13/105	. . {Licence- or registration plates, provided with mounting means, e.g. frames, holders, retainers, brackets}
13/0237	. . {Side or rear panels}		
13/0243	. . . {Doors}	<b>15/00</b>	<b>Arrangements or adaptations of sanitation devices</b>
13/025	. . . {Pillars; Roof rails}	15/02	. Washing facilities {(in railway vehicles <a href="#">B61D 35/002</a> )}
13/0256	. . {Dashboard liners}	15/04	. Toilet facilities {(in railway vehicles <a href="#">B61D 35/005</a> )}
13/0262	. . {Mid-console liners}		
13/0268	. . {Rear parcel liners (used as luggage covering means <a href="#">B60R 5/044</a> )}	<b>16/00</b>	<b>Electric or fluid circuits specially adapted for vehicles and not otherwise provided for; Arrangement of elements of electric or fluid circuits specially adapted for vehicles and not otherwise provided for {(devices for protecting vehicle occupants in case of accidents <a href="#">B60R 21/00</a>; safety belts <a href="#">B60R 22/00</a>; central door locking <a href="#">E05B 49/00</a>, <a href="#">E05B 77/50</a>)}</b>
13/0275	. . {comprising removable or hinged parts (for accessing storage compartments <a href="#">B60R 7/04</a> ; for airbag deployment <a href="#">B60R 21/215</a> )}	16/005	. {Electro-mechanical devices, e.g. switched (electric switches in general <a href="#">H01H</a> )}
2013/0281	. . {made of a plurality of visible parts}	16/02	. electric {constitutive elements}
2013/0287	. . {integrating other functions or accessories}	16/0207	. . {Wire harnesses}
2013/0293	. . {Connection or positioning of adjacent panels}	16/0215	. . . {Protecting, fastening and routing means therefor}
13/04	. {External} Ornamental or guard strips; Ornamental inscriptive devices {thereon (fastening strips or bars to sheets or plates by means of clips <a href="#">F16B 5/12</a> )}	16/0222	. . . . {Grommets}
13/043	. . {Door edge guards}	16/023	. . for transmission of signals between vehicle parts or subsystems
2013/046	. . {Foot boards}	16/0231	. . . {Circuits relating to the driving or the functioning of the vehicle (monitoring tyres <a href="#">B60C 23/00</a> ; indicating overspeed <a href="#">B60K 31/00</a> ; for dash boards <a href="#">B60K 37/00</a> , <a href="#">B60Q 3/10</a> ; for indicating emergencies <a href="#">B60Q 1/52</a> ; brake control systems <a href="#">B60T</a> ; registering or indicating the working of vehicles <a href="#">G07C 5/00</a> ; measuring distance <a href="#">G01C</a> , e.g. combinations of speed and distance <a href="#">G01C 23/00</a> ; engine indicators <a href="#">G01L</a> ; measuring speed or acceleration <a href="#">G01P</a> )}
13/06	. Sealing strips (sealing arrangements for vehicle windows, windscreens, non-fixed roofs, doors, or similar devices <a href="#">B60J 10/00</a> )	16/0232	. . . . {for measuring vehicle parameters and indicating critical, abnormal or dangerous conditions}
13/07	. Water drainage or guide means not integral with roof structure ( <a href="#">B60R 13/06</a> , <a href="#">B60J 10/25</a> take precedence; {integral with roof structure <a href="#">B62D 25/07</a> ; drainage openings having movable or removable closures <a href="#">B62D 25/24</a> })	16/0233	. . . . . {Vehicle tilting, overturning or roll over}
13/08	. Insulating elements, e.g. for sound insulation {(sound insulating linings for trains <a href="#">B61D 17/185</a> ; drivers' cabs for load-carrying vehicles insulated against vibrations or noise <a href="#">B62D 33/0604</a> ; thermal or acoustic insulation of engines <a href="#">F02B 77/11</a> ; damping of sounds using compensation by electro-acoustic methods <a href="#">G10K 11/178</a> )}	16/0234	. . . . . {related to maintenance or repairing of vehicles}
2013/0807	. . {Arrangements of fasteners or clips specially adapted therefore}	16/0235	. . . . . {for lighting devices combined with starting or ignition devices for road vehicles}
13/0815	. . {Acoustic or thermal insulation of passenger compartments (wall or roof liners integrating the insulating function <a href="#">B60R 13/02</a> ; insulating floor mats or carpets <a href="#">B60N 3/04</a> )}	16/0236	. . . . . {for economical driving}
13/0823	. . . {Insulating partitions, e.g. between front and rear seats}	16/0237	. . . {circuits concerning the atmospheric environment ( <a href="#">meteorology G01W</a> )}
13/083	. . . {for fire walls or floors}	16/0238	. . . {Electrical distribution centers}
13/0838	. . {for engine compartments}	16/0239	. . . {Electronic boxes}
13/0846	. . {for duct, cable or rod passages, e.g. between engine and passenger compartments}		
13/0853	. . . {specially adapted for movable parts, e.g. gears levers, pedals}		



16/027	. . . between relatively movable parts of the vehicle, e.g. between steering wheel and column {(devices for measuring, signalling or controlling tyre pressure or temperature specially adapted for mounting on vehicles <a href="#">B60C 23/00</a> )}	2019/1806	. . . {Structural beams therefor, e.g. shock-absorbing (bumper beams made of cellular materials <a href="#">B60R 19/22</a> )}
16/03	. . for supply of electrical power to vehicle subsystems {or for (circuit arrangements for charging batteries <a href="#">H02J 7/00</a> )}	2019/1813	. . . {made of metal}
16/0307	. . . {using generators driven by a machine different from the vehicle motor}	2019/182	. . . {of light metal, e.g. extruded}
16/0315	. . . {using multiplexing techniques (multiplexing for transmission of signals <a href="#">G08C 15/00</a> ; multiplexing for electrical communication in general <a href="#">H04J</a> )}	2019/1826	. . . {of high-tension steel}
2016/0322	. . . {Temporary code for documents to be reclassified to <a href="#">G08C</a> , <a href="#">H04L</a> or <a href="#">H04Q</a> }	2019/1833	. . . {made of plastic material}
16/033	. . . characterised by the use of electrical cells or batteries (for propulsion puposes <a href="#">B60K 1/04</a> ; supplying batteries to, or removing batteries from, vehicles <a href="#">B60S 5/06</a> ; testing of charge state <a href="#">G01R 31/36</a> )	2019/184	. . . {Blow moulded}
16/037	. . for occupant comfort {, e.g. for automatic adjustment of appliances according to personal settings, e.g. seats, mirrors, steering wheel}	2019/1846	. . . {comprising a cellular structure}
16/0373	. . . {Voice control (in general <a href="#">G10L</a> )}	2019/1853	. . . {of reinforced plastic material}
16/04	. . Arrangement of batteries	2019/186	. . . {Additional energy absorbing means supported on bumper beams, e.g. cellular structures or material}
16/06	. . for removing electrostatic charges (carrying-off electrostatic charges in general <a href="#">H05F 3/00</a> )	2019/1866	. . . {Cellular structures}
16/08	. fluid	2019/1873	. . . {Cellular materials}
<b>17/00</b>	<b>Arrangements or adaptations of lubricating systems or devices (lubricating in general <a href="#">F16N</a>)</b>	2019/188	. . . {Blow molded structures}
17/02	. Systems, e.g. central lubrication systems	2019/1886	. . . {Bumper fascias and fastening means therefor (on fenders <a href="#">B60R 2019/247</a> )}
<b>19/00</b>	<b>Wheel guards; Radiator guards, {e.g. grilles}; Obstruction removers; Fittings damping bouncing force in collisions ({reinforcement elements for side doors <a href="#">B60J 5/0412</a>; } mudguards <a href="#">B62D</a>)</b>	2019/1893	. . . {comprising a multiplicity of identical adjacent shock-absorbing means}
2019/002	. {Wheel guards}	19/20	. . . containing {mainly} gas or liquid, e.g. inflatable (connection of valves to inflatable elastic bodies <a href="#">B60C 29/00</a> )
2019/005	. {Crash attenuators, i.e. means added to highway service vehicles for softening high speed impacts}	19/205	. . . {inflatable in the direction of an obstacle upon impending impact, e.g. using air bags}
2019/007	. {Means for adjusting or regulating the crash absorption capacity of the vehicle, e.g. when detecting an impending collision}	19/22	. . . containing {mainly} cellular material, e.g. solid foam
19/02	. Bumpers, i.e. impact receiving or absorbing members for protecting vehicles or fending off blows from other vehicles or objects ({ <a href="#">B60R 19/56</a> takes precedence; initiating brake action by contact of bumper with an external object <a href="#">B60T 7/22</a> ; for rail vehicles <a href="#">B61F 19/04</a> ; safety equipment for cycles <a href="#">B62J 27/00</a> ; } integral with waterborne vessels or specially adapted therefor <a href="#">B63B 59/02</a> )	19/24	. . Arrangements for mounting bumpers on vehicles
19/023	. . {Details}	2019/242	. . . {on two vertical sleeves, e.g. on energy absorber ends}
2019/026	. . {Buffers, i.e. bumpers of limited extent}	2019/245	. . . {with adjusting means to compensate manufacturing tolerances, e.g. between bumper and energy absorbers}
19/03	. . characterised by material, e.g. composite ( <a href="#">B60R 19/18</a> takes precedence)	2019/247	. . . {Fastening of bumpers' side ends}
19/04	. . formed from more than one section {in a side-by-side arrangement}	19/26	. . . comprising yieldable mounting means ({ <a href="#">B60R 19/38</a> takes precedence; } springs, shock absorbers, or means for damping vibrations <i>per se</i> <a href="#">F16F</a> )
19/12	. . . vertically spaced	2019/262	. . . {with means to adjust or regulate the amount of energy to be absorbed}
19/14	. . . having folding parts	2019/264	. . . {using cellular structures}
19/16	. . . having deflecting members, e.g. rollers, balls	2019/266	. . . {using friction sufaces}
19/18	. . {characterised by the cross-section;} Means within the bumper to absorb impact	2019/268	. . . {with rebound preventing means, e.g. ratchets}
		19/28	. . . Metallic springs
		19/285	. . . {comprising only leaf springs, e.g. the mounting means forming part of the guard itself}
		19/30	. . . Elastomeric material {( <a href="#">B60R 19/34</a> takes precedence)}
		19/32	. . . Fluid shock absorbers {, e.g. with coaxial coil springs}
		19/34	. . . destroyed upon impact, e.g. one-shot type
		19/36	. . . Combinations of yieldable mounting means of different types {(fluid shock absorbers with coaxial coil springs <a href="#">B60R 19/32</a> )}
		19/38	. . . adjustably or movably mounted, e.g. horizontally displaceable for securing a space between parked vehicles {(adjustably mounted for compensating manufacturing tolerances <a href="#">B60R 19/24</a> , <a href="#">B60R 19/26</a> )}

19/40	. . . . in the direction of an obstacle before a collision {, or extending during driving of the vehicle, i.e. to increase the energy absorption capacity of the bumper (inflatable bumpers <a href="#">B60R 19/20</a> )}	2021/0037	. . . . {standing}
19/42	. . extending primarily along the sides of, or completely encircling, a vehicle (ornamental or guard strips <a href="#">B60R 13/04</a> )	2021/0039	. . {Body parts of the occupant or pedestrian affected by the accident}
19/44	. . Bumper guards	2021/0041	. . . . {Arms}
19/445	. . . . {Guard strips}	2021/0044	. . . . {Chest}
19/46	. . . spring- or pivotally-mounted	2021/0046	. . . . {Feet}
19/48	. . combined with, or convertible into, other devices or objects, e.g. bumpers combined with road brushes, bumpers convertible into beds	2021/0048	. . . . {Head}
19/483	. . . . {with obstacle sensors of electric or electronic type}	2021/0051	. . . . {Knees}
2019/486	. . . . {with air passages, e.g. for cooling}	2021/0053	. . . . {Legs}
19/50	. . . with lights or registration plates	2021/0055	. . . . {Pelvis}
2019/505	. . . . {with lights}	2021/0058	. . . . {Shoulders}
19/52	. Radiator or grille guards {; Radiator grilles (cooling aspects <a href="#">B60K 11/08</a> )}	2021/006	. . {Type of passenger}
2019/522	. . {Bull bars}	2021/0062	. . . . {woman, e.g. pregnant}
2019/525	. . {Radiator grilles}	2021/0065	. {Type of vehicles}
2019/527	. . . . {integral with bumpers}	2021/0067	. . {Buses}
19/54	. Obstruction removers or deflectors ( <a href="#">B60R 19/16</a> , <a href="#">B60R 21/34</a> take precedence)	2021/0069	. . {Trailers, e.g. caravans}
19/545	. . {Devices for cutting wire-type obstructions}	2021/0072	. . {Convertible cars}
19/56	. {Fittings damping bouncing force in truck collisions, e.g. bumpers;} Arrangements on high-riding vehicles, e.g. lorries, for preventing vehicles or objects from running thereunder	2021/0074	. . {Utility vehicles}
19/565	. . {on vehicle sides}	2021/0076	. . . . {Agricultural vehicles, e.g. tractors}
<b>21/00</b>	<b>Arrangements or fittings on vehicles for protecting or preventing injuries to occupants or pedestrians in case of accidents or other traffic risks (safety belts or body harnesses in vehicles <a href="#">B60R 22/00</a>; devices, apparatus or methods for life-saving in general <a href="#">A62B</a>; safety devices for propulsion unit control specially adapted for, or arranged in, vehicles <a href="#">B60K 28/00</a>; seats constructed to protect the occupant from the effect of abnormal g-forces, e.g. crash or safety seats, <a href="#">B60N 2/42</a>; energy-absorbing arrangements for hand wheels for steering vehicles <a href="#">B62D 1/11</a>; energy-absorbing arrangements for vehicle steering columns <a href="#">B62D 1/19</a>; harnessing in aircraft <a href="#">B64D 25/00</a>)</b>	2021/0079	. . . . {Fork-lift trucks}
2021/0002	. {Type of accident}	2021/0081	. . . . {Working vehicles}
2021/0004	. . {Frontal collision}	2021/0083	. . . . {Pick-up trucks; Light trucks; Sport utility vehicles}
2021/0006	. . {Lateral collision}	2021/0086	. . {Racing cars}
2021/0009	. . {Oblique collision}	2021/0088	. . {Cycles, e.g. motorcycles}
2021/0011	. . {Rear collision or recoiling bounce after frontal collision}	2021/009	. . {Railway vehicles}
2021/0013	. . {Free fall}	2021/0093	. . {Aircraft}
2021/0016	. . {Fall in water}	2021/0095	. . {Boats}
2021/0018	. . {Roll-over}	2021/0097	. . {Amusement vehicles}
2021/002	. . {Underrun collision}	21/01	. Electrical circuits for triggering {passive} safety arrangements, {e.g. airbags, safety belt tighteners,} in case of vehicle accidents or impending vehicle accidents {(electrical circuits for transmission of signals between steering wheel and the vehicle itself <a href="#">B60R 16/027</a> ; for electrically actuating belt retractor locking means <a href="#">B60R 22/343</a> )}
2021/0023	. . {Offset collision}	2021/01006	. . {Mounting of electrical components in vehicles}
2021/0025	. . {Pole collision}	2021/01013	. . {Means for detecting collision, impending collision or roll-over}
2021/0027	. {Post collision measures, e.g. notifying emergency services}	2021/0102	. . . . {the monitored value being used for calculating occupant displacement}
2021/003	. {characterised by occupant or pedestrian}	2021/01027	. . . . {Safing sensors}
2021/0032	. . {Position of passenger}	2021/01034	. . {Controlling a plurality of restraint devices}
2021/0034	. . . . {lying down}	2021/0104	. . {Communication circuits for data transmission}
		2021/01047	. . . . {Architecture}
		2021/01054	. . . . {Bus}
		2021/01061	. . . . . {between the airbag system and other vehicle electronic systems}
		2021/01068	. . . . . {between different sensors and airbag control unit}
		2021/01075	. . . . . {between the airbag control unit and pyrotechnic fuses or equivalent actuators}
		2021/01081	. . . . {Transmission medium}
		2021/01088	. . . . . {wireless}
		2021/01095	. . . . . {optical}
		2021/01102	. . . . {Transmission method}
		2021/01109	. . . . . {power and data signal using transmission medium}
		2021/01115	. . . . . {specific data frames}
		2021/01122	. . . {Prevention of malfunction}
		2021/01129	. . . . {Problems or faults}
		2021/01136	. . . . . {Cut lines}

2021/01143	. . . .	{Short circuits}	2021/01345	. . . .	{using mechanical sensing means}
2021/0115	. . . .	{Current leakage}	21/0136	. . .	responsive to actual contact with an obstacle {, e.g. to vehicle deformation, bumper displacement or bumper velocity relative to the vehicle ( <a href="#">monitoring crash strength in combination with passenger seat detection B60R 21/01558</a> )}
2021/01156	. . . .	{Current or voltage overload}	21/015	. .	including means for detecting the presence or position of passengers, passenger seats or child seats {, and the related safety parameters therefor, e.g. speed or timing of airbag inflation in relation to occupant position or seat belt use}
2021/01163	. . . .	{Insufficient current or voltage}	21/01504	. . .	{detecting bag displacement}
2021/0117	. . . .	{Noise}	21/01508	. . .	{detecting forces or pressure in bags or modules}
2021/01177	. . . .	{Misdeployment, e.g. during assembly, disassembly, accident salvage or recycling}	21/01512	. . .	{Passenger detection systems}
2021/01184	. . .	{Fault detection or diagnostic circuits ( <a href="#">in power circuits B60R 2021/01129</a> )}	21/01516	. . . .	{using force or pressure sensing means}
2021/0119	. . . .	{Plausibility check}	21/0152	. . . . .	{using strain gauges}
2021/01197	. . . .	{Warning devices}	21/01522	. . . . .	{using fluid means}
2021/01204	. .	{Actuation parameters of safety arrangents}	21/01524	. . . . .	{using electric switches}
2021/01211	. . .	{Expansion of air bags}	21/01526	. . . . .	{using piezoelectric elements}
2021/01218	. . . .	{control of expansion speed}	21/01528	. . . .	{mounted on the bag}
2021/01225	. . . .	{control of expansion volume}	21/0153	. . . .	{using field detection presence sensors}
2021/01231	. . . .	{control of expansion timing or sequence}	21/01532	. . . . .	{using electric or capacitive field sensors}
2021/01238	. . . .	{control of expansion shape}	21/01534	. . . . .	{using electromagnetic waves, e.g. infrared}
2021/01245	. . . .	{selection of seat for bag expansion}	21/01536	. . . . .	{using ultrasonic waves}
2021/01252	. . .	{Devices other than bags}	21/01538	. . . . .	{for image processing, e.g. cameras or sensor arrays}
2021/01259	. . . .	{Brakes}	21/0154	. . . . .	{in combination with seat heating}
2021/01265	. . . .	{Seat belts}	21/01542	. . . .	{detecting passenger motion}
2021/01272	. . . . .	{Belt tensioners}	21/01544	. . . .	{detecting seat belt parameters, e.g. length, tension or height-adjustment}
2021/01279	. . . . .	{Load limiters}	21/01546	. . . . .	{using belt buckle sensors}
2021/01286	. .	{Electronic control units}	21/01548	. . . . .	{sensing the amount of belt winded on retractor}
2021/01293	. . .	{programmable for use in different vehicles or with different airbags configurations}	21/0155	. . . . .	{sensing belt tension}
21/013	. .	including means for detecting collisions, impending collisions or roll-over	21/01552	. . . .	{detecting position of specific human body parts, e.g. face, eyes or hands}
2021/01302	. . .	{monitoring vehicle body vibrations or noise}	21/01554	. . .	{Seat position sensors}
2021/01304	. . .	{monitoring rough road condition}	21/01556	. . .	{Child-seat detection systems}
2021/01306	. . .	{monitoring vehicle inclination}	21/01558	. . .	{monitoring crash strength}
2021/01308	. . .	{monitoring distance between vehicle body and road}	21/0156	. . . .	{by deceleration}
2021/01311	. . .	{monitoring the braking system, e.g. ABS}	21/01562	. . . .	{by speed}
2021/01313	. . .	{monitoring the vehicle steering system or the dynamic control system}	21/01564	. . .	{Manually or key-actuated inhibition switches}
2021/01315	. . .	{monitoring occupant displacement}	21/01566	. . .	{Devices for warning or indicating mode of inhibition}
2021/01317	. . .	{monitoring seat belt tension}	21/017	. .	including arrangements for providing electric power to safety arrangements {or their actuating means, e.g. to pyrotechnic fuses or electro- mechanic valves}
21/0132	. . .	responsive to vehicle motion parameters {, e.g. to vehicle longitudinal or transversal deceleration or speed value}	21/0173	. . .	{Diagnostic or recording means therefor}
2021/01322	. . . .	{comprising variable thresholds, e.g. depending from other collision parameters}	21/0176	. . . .	{for firing circuits using only mechanical switches as collision detecting means, in series with pyrotechnic fuses}
2021/01325	. . . .	{Vertical acceleration}	21/02	. .	Occupant safety arrangements or fittings {, e.g. crash pads ( <a href="#">seat belts with crash pads B60R 22/14; removable children's seats having a front guard or barrier B60N 2/2839</a> )}
2021/01327	. . . .	{Angular velocity or angular acceleration}	2021/0206	. .	{Self-supporting restraint systems, e.g. restraining arms, plates or the like}
21/0133	. . . .	{by integrating the amplitude of the input signal}	2021/0213	. . .	{mounted on floor}
<b>WARNING</b>			2021/022	. . .	{mounted on seats}
Group(s) <a href="#">B60R 21/0133</a> - <a href="#">B60R 21/01338</a> are incomplete pending reclassification of documents from group <a href="#">B60R 21/0132</a> .					
Until reclassification is complete, groups <a href="#">B60R 21/0132</a> and <a href="#">B60R 21/0133</a> - <a href="#">B60R 21/01338</a> should be considered in order to perform a complete search.					
21/01332	. . . .	{by frequency or waveform analysis}			
21/01334	. . . . .	{using Fourier analysis}			
21/01336	. . . . .	{using filtering}			
21/01338	. . . . .	{using vector analysis}			
21/0134	. . .	responsive to imminent contact with an obstacle {, e.g. using radar systems}			

2021/0226	. . . {mounted on fire wall}	21/131	. . . {Protective devices for drivers in case of overturning of tractors (means for preventing overturning or tipping of tractors <a href="#">B62D 49/08</a> )}
2021/0233	. . . {mounted on steering-wheel}	2021/132	. . . {Roll bars for convertible vehicles}
2021/024	. . . {mounted on dash-board}	2021/134	. . . {movable from a retracted to a protection position}
2021/0246	. . . {mounted on side walls}	2021/135	. . . {automatically during an accident}
2021/0253	. . . {mounted on roof}	2021/137	. . . {Reinforcement cages for closed vehicle bodies}
21/026	. . {Rigid partitions inside vehicles, e.g. between passengers and load compartments ( <a href="#">B60R 21/12</a> takes precedence)}	2021/138	. . . {using external airbags}
2021/0266	. . . {comprising energy absorbing means}	21/16	. . Inflatable occupant restraints or confinements designed to inflate upon impact or impending impact, e.g. air bags ({protective garments with automatically inflatable shock-absorbing means <a href="#">A41D 13/018</a> ; } connection of valves to inflatable elastic bodies <a href="#">B60C 29/00</a> )
2021/0273	. . {automatically movable to an operative position, e.g. in case of collision or impending collision}	2021/161	. . . {characterised by additional means for controlling deployment trajectory}
2021/028	. . {Means preventing passenger from falling out of vehicles}	2021/162	. . . {Means for diverting, destroying or blocking the bag in case of dangerous deployment, e.g. during rescue operations or use of rear-facing children seats}
21/0286	. . {Padded or energy absorbing driving control initiating means, e.g. gear lever, pedals ( <a href="#">B60R 21/09</a> takes precedence; padded linings for steering control means <a href="#">B60R 21/05</a> )}	21/164	. . . {combined with vehicle venting means for reducing or avoiding the passenger compartment overpressure during inflation}
2021/0293	. . {Additional pads or cushions in vehicle compartments, e.g. movably mounted}	2021/165	. . . {reusable, e.g. in case of multiple collisions}
21/04	. . Padded linings for the vehicle interior {; Energy absorbing structures associated with padded or non-padded linings}	2021/167	. . . {comprising anti-theft devices}
2021/0407	. . . {using gas or liquid as energy absorbing means}	2021/168	. . . {for restraining luggage}
2021/0414	. . . {using energy absorbing ribs}	21/18	. . . the inflatable member formed as a belt or harness or combined with a belt or harness arrangement
2021/0421	. . . {using honeycomb structures}	21/20	. . . Arrangements for storing inflatable members in their non-use or deflated condition; Arrangement or mounting of air bag modules or components
21/0428	. . . {associated with the side doors or panels, e.g. displaced towards the occupants in case of a side collision}	21/201	. . . . Packaging straps or envelopes for inflatable members
2021/0435	. . . {associated with the side or roof pillars}	21/203	. . . . in steering wheels or steering columns
2021/0442	. . . {associated with the roof panel}	21/2032	. . . . {the inflator or inflatable member not being rotatable with the steering wheel; Arrangements using the steering column or steering wheel rim for storing, supplying or evacuating the inflation gas or for storing the inflatable member}
21/045	. . . associated with the instrument panel or dashboard	21/2035	. . . . {using modules containing inflator, bag and cover attachable to the steering wheel as a complete sub-unit (steering wheel covers with tear lines <a href="#">B60R 21/21656</a> ; assembling of modules <a href="#">B60R 21/217</a> )}
21/05	. . . associated with the steering wheel, {steering} hand lever or {steering} column ( <a href="#">yieldable steering columns <a href="#">B62D 1/18</a></a> )	21/2037	. . . . . {the module or a major component thereof being yieldably mounted, e.g. for actuating the horn switch or for protecting the driver in a non-deployment situation (horn switches integrated in steering wheel covers with tear lines <a href="#">B60R 21/21658</a> )}
21/055	. . Padded {or energy-absorbing} fittings {, e.g. seat belt anchors ( <a href="#">sun visors <a href="#">B60J 3/00</a>; head rests <a href="#">B60N 2/80</a></a> )}	21/205	. . . . in dashboards
21/06	. . Safety nets, transparent sheets, curtains, or the like, e.g. between occupants and glass ({ <a href="#">B60R 21/026</a> }, <a href="#">B60R 21/11</a> , <a href="#">B60R 21/12</a> , <a href="#">B60R 21/16</a> take precedence)	21/206	. . . . in the lower part of dashboards, e.g. for protecting the knees
2021/065	. . . {comprising energy absorbing mounting means}	21/207	. . . . in vehicle seats
21/08	. . . {automatically} movable from an inoperative to an operative position, e.g. in a collision (electrical circuits for triggering safety arrangements <a href="#">B60R 21/01</a> )	21/2072	. . . . {in children's seats}
21/09	. . Control elements or operating handles movable from an operative to an out-of-the way position, e.g. {pedals,} switch knobs, window cranks {(specially adapted for brake pedals, e.g. by venting of master cylinder or destruction of force transmitting rod, <a href="#">B60T 7/065</a> )}	2021/2074	. . . . {in head rests}
21/11	. . Overhead guards, e.g. against loads falling down {(specially adapted for fork-lift trucks <a href="#">B66F 9/07545</a> )}	2021/2076	. . . . {Removable covers with tear seams}
21/12	. . which protect the occupants against personal attack from the inside or the outside of the vehicle	2021/2078	. . . . {in rear seats}
21/13	. . Roll-over protection (electrical circuits for triggering safety arrangements <a href="#">B60R 21/01</a> )		



21/21	. . . .	in vehicle side panels, e.g. doors ( <a href="#">pillar mounted arrangements B60R 21/213</a> )	21/231	. . . .	characterised by their shape, construction or spatial configuration
21/213	. . . .	in vehicle roof frames or pillars	2021/23107	. . . .	{the bag being integrated in a multi-bag system}
21/214	. . . .	in roof panels	2021/23115	. . . .	{with inflatable support compartments creating an internal suction volume}
21/215	. . . .	characterised by the covers for the inflatable member {(B60R 21/2176 takes precedence)}	2021/23123	. . . .	{Heat protection panels}
2021/21506	. . . .	{comprising tearing tabs, legs or the like for holding the lid before deployment}	2021/2313	. . . .	{comprising sensitive compartments}
2021/21512	. . . .	{the lid being displaced towards the occupant during deployment (B60R 2021/2161, B60R 2021/21525 take precedence)}	21/23138	. . . .	{specially adapted for side protection (B60R 21/23184, B60R 21/232 take precedence)}
2021/21518	. . . .	{comprising a lock unlocked during deployment}	2021/23146	. . . .	{seat mounted}
2021/21525	. . . .	{the lid being fixed on the bag, or forming part of the bag wall, or the bag itself being used as wall liner}	2021/23153	. . . .	{specially adapted for rear seat passengers}
2021/21531	. . . .	{using a stretchable wall liner}	2021/23161	. . . .	{specially adapted for protecting at least two passengers, e.g. preventing them from hitting each other}
2021/21537	. . . .	{characterised by hinges}	2021/23169	. . . .	{specially adapted for knee protection}
2021/21543	. . . .	{with emblems}	2021/23176	. . . .	{specially adapted for foot protection}
21/2155	. . . .	with complex motion of the cover; Retraction under the lining during opening	21/23184	. . . .	{Tubular air bags connected to the vehicle at their two extremities}
21/216	. . . .	comprising tether means for limitation of cover motion during deployment	2021/23192	. . . .	{Roof bags, i.e. protecting the occupant in a roll-over situation}
2021/2161	. . . .	{the cover being displaced towards the occupant during deployment}	21/232	. . . .	Curtain-type airbags deploying mainly in a vertical direction from their top edge
2021/2163	. . . .	{with energy absorbing or elastic means}	21/233	. . . .	comprising a plurality of individual compartments; comprising two or more bag-like members, one within the other (B60R 21/232 takes precedence)
21/2165	. . . .	characterised by a tear line for defining a deployment opening	2021/23308	. . . .	{the individual compartments defining the external shape of the bag}
2021/21652	. . . .	{the tearing being done or assisted by cutters}	2021/23316	. . . .	{Inner seams, e.g. creating separate compartments or used as tethering means}
2021/21654	. . . .	{the tearing being done or assisted by heating or pyrotechnic means}	2021/23324	. . . .	{Inner walls crating separate compartments, e.g. communicating with vents}
21/21656	. . . .	{Steering wheel covers or similar cup-shaped covers}	2021/23332	. . . .	{using independent bags, one within the other}
21/21658	. . . .	{with integrated switches, e.g. horn switches}	21/2334	. . . .	Expansion control features
21/217	. . . .	Inflation fluid source retainers, e.g. reaction canisters; Connection of bags, covers, diffusers or inflation fluid sources therewith or together	21/2338	. . . .	Tethers
21/2171	. . . .	{specially adapted for elongated cylindrical or bottle-like inflators with a symmetry axis perpendicular to the main direction of bag deployment, e.g. extruded reaction canisters (B60R 21/2176 takes precedence)}	2021/23382	. . . .	{Internal tether means}
2021/2172	. . . .	{the cover being connected to the surrounding part and to the module, e.g. floating mounts}	2021/23384	. . . .	{having ends which are movable or detachable during deployment}
2021/2173	. . . .	{the module or part thereof being movably mounted on the vehicle}	2021/23386	. . . .	{External tether means}
2021/2175	. . . .	{using energy absorbing means}	2021/23388	. . . .	{having ends which are movable or detachable during deployment}
21/2176	. . . .	{the air bag components being completely enclosed in a soft or semi-rigid housing or cover}	21/2342	. . . .	Tear seams
2021/2177	. . . .	{Reaction canisters characterised by material}	21/2346	. . . .	Soft diffusers
2021/2178	. . . .	{Plastic}	21/235	. . . .	characterised by their material
21/23	. . .	Inflatable members (B60R 21/18 takes precedence; connection to inflation fluid source retainers B60R 21/217)	2021/23504	. . . .	{characterised by material}
			2021/23509	. . . .	{Fabric}
			2021/23514	. . . .	{coated fabric}
			2021/23519	. . . .	{Resin (for coating fabric B60R 2021/23514)}
			2021/23523	. . . .	{Composite (coated fabric B60R 2021/23514)}
			2021/23528	. . . .	{Metal}
			2021/23533	. . . .	{characterised by the manufacturing process}
			2021/23538	. . . .	{Sewing}
			2021/23542	. . . .	{Weaving}
			2021/23547	. . . .	{one piece weaving}

2021/23552	. . . . .	{Knitting}	2021/2642	. . . . .	{comprising a plurality of combustion chambers or sub-chambers}
2021/23557	. . . . .	{Molding}	21/2644	. . . . .	{using only solid reacting substances, e.g. pellets, powder}
2021/23561	. . . . .	{Sealing}	21/2646	. . . . .	{the reacting substances being supported by the inflatable member walls, or by a flexible support within it}
2021/23566	. . . . .	{Nesting of panels, i.e. for material utilisation}	2021/2648	. . . . .	{comprising a plurality of combustion chambers or sub-chambers}
2021/23571	. . . . .	{characterised by connections between panels}	21/268	. . . . .	using instantaneous release of stored pressurised gas {(B60R 21/26005 takes precedence)}
2021/23576	. . . . .	{Sewing}	2021/2685	. . . . .	{comprising a plurality of pressure chambers}
2021/2358	. . . . .	{Bonding}	21/272	. . . . .	with means for increasing the pressure of the gas just before or during liberation, e.g. hybrid inflators
2021/23585	. . . . .	{Vulcanisation}	2021/2725	. . . . .	{using a fluid fuel gas generator}
2021/2359	. . . . .	{Welding}	21/274	. . . . .	characterised by means to rupture or open the fluid source
2021/23595	. . . . .	{Sealing}	21/276	. . . . .	with means to vent the inflation fluid source, e.g. in case of overpressure {(B60R 21/30 takes precedence; venting means on inflatable member walls B60R 21/239)}
21/237	. . . . .	characterised by the way they are folded	2021/2765	. . . . .	{comprising means to control the venting}
2021/2375	. . . . .	{Folding devices}	21/30	. . . . .	with means to draw ambient air into the flow line and mix such air with the inflation fluid
21/239	. . . . .	characterised by their venting means	21/33	. . . . .	Arrangements for non-electric triggering of inflation (electrical circuits for triggering safety arrangements B60R 21/01)
2021/2395	. . . . .	{comprising means to control the venting}	2021/335	. . . . .	{Connections between collision detecting means and inflators using pyrotechnic transmission lines}
21/26	. . . . .	characterised by the inflation fluid source or means to control inflation fluid flow {(arrangement or mounting thereof to the vehicle B60R 21/20; blasting cartridges for producing gas under pressure in general F42B 3/04; initiators or igniters therefor F42B 3/10)}	21/34	. . . . .	Protecting non-occupants of a vehicle, e.g. pedestrians {(B60R 19/02 takes precedence)}
21/26005	. . . . .	{the inflation fluid being transferred to the inflatable member by the mechanical deformation of the fluid container during an impact}	2021/343	. . . . .	{using deformable body panel, bodywork or components}
2021/26011	. . . . .	{using a filter through which the inflation gas passes}	2021/346	. . . . .	{means outside vehicle body}
2021/26017	. . . . .	{a cooling agent being added to the inflation fluid}	21/36	. . . . .	using airbags
2021/26023	. . . . .	{for filling the bag with foam}	21/38	. . . . .	using means for lifting bonnets
2021/26029	. . . . .	{Igniters}	22/00		<b>Safety belts or body harnesses in vehicles (safety belts or body harnesses in general A62B 35/00)</b>
2021/26035	. . . . .	{triggered by mechanical means}	22/001	. . . . .	{Knee, leg or head belts}
2021/26041	. . . . .	{of elongated shape}	2022/003	. . . . .	{for restraining detainees}
2021/26047	. . . . .	{of film shape}	2022/005	. . . . .	{for restraining luggages}
2021/26052	. . . . .	{using fluid materials}	2022/006	. . . . .	{Sleeve or tubular members enveloping the seat belt for enhancing comfort or protection}
2021/26058	. . . . .	{using a combination of inflators}	2022/008	. . . . .	{Belts; Fixing thereof specially adapted for pregnant users}
2021/26064	. . . . .	{characterised by auto-ignition means}	22/02	. . . . .	Semi-passive restraint systems, e.g. systems applied or removed automatically but not both (; Manual restraint systems (knee, leg or head belts B60R 22/001; devices for releasing in an emergency, remote or automatic unbuckling devices B60R 22/32)}
2021/2607	. . . . .	{characterised by heating or heat insulating means, e.g. for use under extreme temperatures}	2022/021	. . . . .	{Means for holding the tongue or buckle in a non-use position, e.g. for easy access by the user}
2021/26076	. . . . .	{characterised by casing}	22/022	. . . . .	{with means for facilitating access to rear seats in two-door cars}
2021/26082	. . . . .	{Material}	22/023	. . . . .	{Three-point seat belt systems comprising two side lower and one side upper anchoring devices (B60R 22/022, B60R 22/03 take precedence)}
2021/26088	. . . . .	{Plastic}			
2021/26094	. . . . .	{characterised by fluid flow controlling valves}			
21/261	. . . . .	with means other than bag structure to diffuse or guide inflation fluid			
2021/2612	. . . . .	{Gas guiding means, e.g. ducts}			
2021/2615	. . . . .	{for diverting the gas into a plurality of bags}			
2021/2617	. . . . .	{Curtain bag nozzles}			
21/262	. . . . .	Elongated tubular diffusers, e.g. curtain-type			
21/263	. . . . .	using a variable source, e.g. plural stage or controlled output (hybrid inflators B60R 21/272)			
2021/2633	. . . . .	{with a plurality of inflation levels}			
2021/2636	. . . . .	{The volume of gas being continuously adjustable}			
21/264	. . . . .	using instantaneous generation of gas, e.g. pyrotechnic (B60R 21/268 takes precedence)			

22/024	. . . {Adaptations for use by small passengers, e.g. children ( <a href="#">B60R 22/20</a> takes precedence; using belt anti-slip devices <a href="#">B60R 22/30</a> )}	22/195	. . . with means to tension the belt in an emergency, {e.g. means of the through-anchor or splitted reel type} (electrical circuits for triggering safety arrangements { <a href="#">B60R 21/01</a> })
2022/025	. . . {Adaptations for use with children seats or luggages}	<b>NOTE</b>	
2022/026	. . . {at least two ends of the belt being retractable after use}	If the type of belt tensioner is not specified and can be used indifferently for pulling belt anchors or rotating belt reels, the documents are classified in <a href="#">B60R 22/46</a>	
2022/027	. . {Four-point seat belt systems, e.g. with the two upper points connected together}	22/1951	. . . {characterised by arrangements in vehicle or relative to seat belt}
2022/028	. . {specially adapted for use in sleeping position, e.g. for reclining seats}	22/1952	. . . {Transmission of tensioning power by cable; Return motion locking means therefor}
2022/029	. . {Belt storage; Devices or systems for controlling winding up of unused seat belt}	22/1953	. . . . {the cable being pulled by mechanical means, e.g. pre-stressed springs, bumper displacement during crash}
22/03	. . Means for presenting the belt or part thereof to the wearer {, e.g. foot-operated}	22/1954	. . . {characterised by fluid actuators, e.g. pyrotechnic gas generators (actuating a cable <a href="#">B60R 22/1952</a> )}
22/04	. Passive restraint systems, i.e. systems both applied and removed automatically, e.g. by movement of the vehicle door	22/1955	. . . . {Linear actuators}
22/06	. . having the belt or harness connected to a member slidable in a vehicle-mounted track	22/1956	. . . . {Mechanical triggering means therefor (also adapted for air bag inflators <a href="#">B60R 21/33</a> )}
22/08	. . having the belt retractor mounted on or in a vehicle closure, e.g. the door	2022/1957	. . . {characterised by electric actuators}
22/10	. specially adapted for children or animals ( <a href="#">children's seats B60N 2/24</a> )	22/1958	. . . {characterised by spring actuators ( <a href="#">B60R 22/1953</a> takes precedence)}
<b>NOTE</b>		22/20	. . adjustable in position, e.g. in height
Groups		22/201	. . . {with the belt anchor connected to a slider movable in a vehicle-mounted track (for passive restraint systems <a href="#">B60R 22/06</a> )}
<a href="#">B60R 22/02</a> { <a href="#">B60R 22/022</a> } - <a href="#">B60R 22/08</a> , <a href="#">B60R 22/18</a> - <a href="#">B60R 22/48</a> take precedence over group <a href="#">B60R 22/10</a>		22/202	. . . . {the slider comprising spring-actuated locking means ( <a href="#">B60R 22/205</a> takes precedence)}
22/105	. . {for children (adaptation of children's seats for seat belts <a href="#">B60N 2/265</a> , <a href="#">B60N 2/2803</a> )}	22/203	. . . . . {the locking means being movably mounted on the slider}
22/12	. Construction of belts or harnesses ( <a href="#">B60R 21/18</a> takes precedence {; woven fabrics for safety belts <a href="#">D03D 1/0005</a> })	22/205	. . . . {the slider comprising emergency actuated locking means}
22/14	. . incorporating enlarged restraint areas, e.g. vests, nets {, crash pads, optionally for children ( <a href="#">crash pads for occupants' safety on vehicles in general B60R 21/02</a> )}	22/206	. . . {Adjustable stop members for restraint systems comprising belt anchor vehicle mounted tracks, e.g. for passive seat belts}
22/16	. . using belts which become permanently deformed, i.e. one time use	2022/207	. . . {Horizontally or transversally adjustable}
22/18	. Anchoring devices	2022/208	. . . {by automatic or remote control means}
2022/1806	. . {for buckles}	22/22	. . secured to the vehicle floor
2022/1812	. . {Connections between seat belt and buckle tongue}	22/24	. . secured to the side, door, or roof of the vehicle
2022/1818	. . {Belt guides}	22/26	. . secured to the seat
2022/1825	. . . {using rollers}	2022/263	. . . {Front seats}
2022/1831	. . . {comprising a slotted plate sliding in its plane, e.g. inside circular guides}	2022/266	. . . {Rear seats, e.g. benches}
2022/1837	. . . {comprising a universal mounting, e.g. spherical or cardan-type}	22/28	. incorporating energy-absorbing devices {(belt anchors provided with energy-absorbing means for protecting the occupants in case of physical contact therewith <a href="#">B60R 21/055</a> ; belt retractors comprising energy-absorbing means <a href="#">B60R 22/341</a> , <a href="#">B60R 22/4676</a> )}
2022/1843	. . . {comprising an elongated sleeve}	2022/281	. . {for buckles}
22/185	. . with stopping means for acting directly upon the belt in an emergency, e.g. by clamping or friction {( <a href="#">B60R 22/195</a> takes precedence; combined with the retractor <a href="#">B60R 22/42</a> )}	2022/282	. . {using fluids or vico-elastic materials}
22/1855	. . . {the means being sensitive to belt tension}	2022/283	. . {using tearing or scoring of material}
22/19	. . with means for reducing belt tension during use under normal conditions {(included in the retractor <a href="#">B60R 22/44</a> )}	2022/284	. . {using electric or magnetic braking means}
		2022/285	. . {using friction surfaces}
		2022/286	. . {using deformation of material}
		2022/287	. . . {of torsion rods or tubes}
		2022/288	. . {with means to adjust or regulate the amount of energy to be absorbed}
		2022/289	. . {Energy-absorption curves}

- 22/30 . Coupling devices other than buckles, including length-adjusting fittings {or anti-slip devices (adaptations of manual three-point seat belt systems for use by small passengers using other means than belt anti-slip devices B60R 22/024; buckles A44B 11/00; releasable fastenings in general F16B)}
- 22/32 . Devices for releasing in an emergency, e.g. after an accident {; Remote or automatic unbuckling devices (unlocking devices for retractors B60R 22/3416)}
- 22/321 . . {using electric means}
- 22/322 . . {using automatic actuating means (B60R 22/321 takes precedence)}
- 22/324 . . . {triggered by strong traction on the seat belt, e.g. with temporisation}
- 22/325 . . {using remote control means (B60R 22/321, B60R 22/322 take precedence)}
- 2022/327 . . {using pyrotechnic means}
- 2022/328 . . {comprising means for cutting the belt}
- 22/34 . Belt retractors, e.g. reels (anchoring devices {, e.g. guide loops} , with means to tension the belt in an emergency B60R 22/195)
- 2022/3402 . . {Retractor casings; Mounting thereof}
- 22/3405 . . {of the non-rotary type}
- 22/3408 . . {without locking means (B60R 22/3405 takes precedence)}
- 22/341 . . {comprising energy-absorbing means}
- 22/3413 . . . {operating between belt reel and retractor frame (B60R 22/4676 takes precedence)}
- 22/3416 . . {Unlocking devices for retractors (B60R 22/3405 takes precedence)}
- 2022/3419 . . {with end lock preventing means}
- 2022/3421 . . {with means for locking the belt reel in a non-use position, e.g. for seat mounted retractor when the seat is in a non-locked condition}
- 2022/3424 . . {Multi-spool or multi-belt retractors}
- 2022/3427 . . {Seat belt connection on reels}
- 22/343 . . with electrically actuated locking means {(B60R 22/3405 takes precedence)}
- 22/347 . . with means for permanently locking the retractor during the wearing of the belt {(B60R 22/3405} , B60R 22/343, B60R 22/415 take precedence)
- 2022/3475 . . . {having means for acting directly upon the belt, e.g. by clamping or friction}
- 22/35 . . . the locking means being automatically actuated
- 22/353 . . . . in response to belt movement when a wearer applies the belt
- 2022/3535 . . . . . {comprising anti-cinch devices}
- 22/357 . . . . . in response to fastening of the belt buckle
- 22/36 . . self-locking in an emergency {(B60R 22/3405} , B60R 22/343 take precedence)
- 22/38 . . . responsive only to belt movement
- 2022/385 . . . . {with adjustable sensitivity}
- 22/40 . . . responsive only to vehicle movement
- 2022/401 . . . . {with adjustable sensor}
- 2022/402 . . . . . {automatically adjustable to keep a vertical position, e.g. irrespective of seat or vehicle tilting}
- 2022/403 . . . . . {using externally controlled means, e.g. linked with seat back hinge}
- 2022/404 . . . . . {with remote sensor, e.g. for mounting on seat}
- 22/405 . . . responsive to belt movement and vehicle movement
- 22/41 . . . with additional means for preventing locking {during unwinding} under predetermined conditions
- 22/415 . . . with additional means allowing a permanent locking of the retractor during the wearing of the belt
- 22/42 . . . having means for acting directly upon the belt, e.g. by clamping or friction {(not combined with the retractor B60R 22/185)}
- 22/44 . . with means for reducing belt tension during use under normal conditions {(not included in the retractor B60R 22/19; B60R 22/3405 takes precedence)}
- 2022/4406 . . . {Spring shapes; Spring characteristic; Springs with adjustable anchoring means}
- 2022/4413 . . . {by connecting the retracting spring to the belt reel by means of a transmission which decreases the spring force when the belt is pulled out, e.g. using conical pulleys}
- 2022/442 . . . {using one spring and one additional retraction device in parallel}
- 2022/4426 . . . . {the additional retraction device being a second spring}
- 2022/4433 . . . . . {externally controlled}
- 2022/444 . . . . {the additional retraction device being an electric actuator}
- 2022/4446 . . . {using one spring and one additional retraction device in series}
- 2022/4453 . . . . {the additional retraction device being a second spring}
- 2022/446 . . . . . {with external control means}
- 2022/4466 . . . . {the additional retraction device being an electric actuator}
- 2022/4473 . . . {using an electric retraction device (combined with a spring B60R 2022/444, B60R 2022/4466)}
- 2022/448 . . . {using a fluid actuated retraction device}
- 2022/4486 . . . {for cancelling the belt tension}
- 2022/4493 . . . {for braking the belt reel using friction surfaces or the like}
- 22/46 . . {Reels} with means to tension the belt in an emergency {by forced winding up} (electrical circuits for triggering safety arrangements B60R 21/01 {tensioners using reels only guiding the belt during normal use, e.g. splitted reels B60R 22/195})
- 22/4604 . . . {characterised by arrangements in vehicle or relative to seat belt}
- 2022/4609 . . . . {using a plurality of tensioners}
- 2022/4614 . . . . {one pretensioner acting on a plurality of belts}
- 22/4619 . . . {Transmission of tensioning power by cable, e.g. using a clutch on reel side}
- 22/4623 . . . . {the cable being pulled by mechanical means, e.g. pre-stressed springs, bumper displacement during crash}
- 22/4628 . . . {characterised by fluid actuators, e.g. pyrotechnic gas generators (actuating a cable B60R 22/4619)}
- 22/4633 . . . . {Linear actuators, e.g. comprising a piston moving along reel axis and rotating along its own axis}
- 2022/4638 . . . . . {comprising a piston moving along or in parallel to the reel axis}



2022/4642	. . . . {the gas directly propelling a flexible driving means, e.g. a plurality of successive masses, in a tubular chamber}	25/02	. . . operating on the steering mechanism
2022/4647	. . . . . {the driving means being a belt, a chain or the like}	25/021	. . . restraining movement of the steering column or steering wheel hub, e.g. restraining means controlled by ignition switch
22/4652	. . . . . {Mechanical triggering means therefor (also adapted for air bag inflators <a href="#">B60R 21/33</a> )}	25/02102	. . . . . {with supplementary safety device preventing operation of the starter of an engine already running}
2022/4657	. . . . . {comprising a plurality of charges}	25/02105	. . . . . {Arrangement of the steering column thereof}
2022/4661	. . . . . {comprising venting means, e.g. for avoiding overpressure in case of fire or for allowing return motion with energy absorption}	25/02107	. . . . . {comprising overload clutching means}
2022/4666	. . . {characterised by electric actuators}	25/0211	. . . . . {comprising a locking member radially and linearly moved towards the steering column}
22/4671	. . . {characterised by spring actuators ( <a href="#">B60R 22/4623</a> takes precedence)}	25/02113	. . . . . {manually actuated, e.g. using removable locking means}
22/4676	. . . {comprising energy-absorbing means operating between belt reel and retractor frame}	25/02115	. . . . . {key actuated}
2022/468	. . . {characterised by clutching means between actuator and belt reel}	25/02118	. . . . . {with linear bolt motion parallel to the lock axis}
2022/4685	. . . {with means to adjust or regulate the tensioning force in relation to external parameters}	25/02121	. . . . . {comprising safety devices avoiding locking until removal of the key}
2022/469	. . . {reusable}	25/02123	. . . . . {using an axially slidable lock cylinder}
2022/4695	. . . {without winding function during normal use}	25/02126	. . . . . {with linear bolt motion perpendicular to the lock axis}
22/48	. Control systems, alarms, or interlock systems, for the correct application of the belt or harness	25/02128	. . . . . {comprising safety devices avoiding locking until removal of the key}
2022/4808	. . {Sensing means arrangements therefor}	25/02131	. . . . . {by using an axially slidable lock cylinder}
2022/4816	. . . {for sensing locking of buckle}	25/02134	. . . . . {comprising a locking member axially moved along the steering column}
2022/4825	. . . {for sensing amount of belt winded on retractor}	25/02136	. . . . . {manually actuated, e.g. using removable locking members}
2022/4833	. . . {for sensing locking of retractor}	25/02139	. . . . . {key actuated}
2022/4841	. . . {for sensing belt tension}	25/02142	. . . . . {comprising externally controlled safety devices for preventing locking during vehicle running condition}
2022/485	. . . {for sensing belt anchor position, belt orientation, or the like}	25/02144	. . . . . {interlocked with gear box or gear lever}
2022/4858	. . . {for sensing pressure on seat}	25/02147	. . . . . {comprising a locking member having other than linear, axial or radial motion, e.g. rotatable; Steering column locking using balls, rollers or the like}
2022/4866	. . {Displaying or indicating arrangements thereof}	25/0215	. . . . . using electric means, e.g. electric motors or solenoids
2022/4875	. . . {on vehicle exterior}	25/02153	. . . . . {comprising a locking member radially and linearly moved towards the steering column}
2022/4883	. . {Interlock systems}	25/02156	. . . . . {comprising a locking member axially moved along the steering column}
2022/4891	. . . {preventing use of the vehicle when the seatbelt is not fastened}	25/022	. . . operating on the steering wheel, e.g. bars locked to the steering wheel rim ( <a href="#">B60R 25/021</a> takes precedence)
<b>25/00</b>	<b>Fittings or systems for preventing or indicating unauthorised use or theft of vehicles (locks for vehicles <a href="#">E05B 77/00-E05B 85/00</a>)</b>	25/0221	. . . . . {restraining means joining the steering wheel with another part of the car, e.g. pedals}
25/001	. {Anti-theft devices acting on jacking means or props, e.g. for trailers}	25/0222	. . . . . {by disjoining steering wheel and column}
25/002	. {Locking of control actuating or transmitting means (of steering mechanism <a href="#">B60R 25/02</a> )}	25/0224	. . . . . {restraining of steering wheel by collapsing against column}
25/003	. . {locking of control actuating means}	25/0225	. . . . . {using a rod locked on the steering wheel rim ( <a href="#">B60R 25/0221</a> takes precedence)}
25/005	. . . {of foot actuated control means (rods connecting pedals and steering wheels <a href="#">B60R 25/0221</a> )}	25/0227	. . . . . {using means preventing access, e.g. boxes enclosing the steering wheel ( <a href="#">B60R 25/014</a> takes precedence)}
25/006	. . . . . {using means preventing access, e.g. boxes, shutters}	25/0228	. . . . . {comprising a locking bolt or fork slidable between or around the steering wheel spokes}
25/007	. . . {of hand actuated control means}		
25/008	. . . . . {comprising means for locking two or more control means together, e.g. hand-brake handle and gear shift lever}		
25/01	. operating on vehicle systems or fittings, e.g. on doors, seats or windscreens		
25/012	. . {Airbags triggered}		
25/014	. . {comprising means for locking the seat or parts thereof in a driving prevention position}		
25/016	. . {comprising means for shuttering the windscreen or part thereof}		
25/018	. . {Thief traps}		

25/023	. . . Countermeasures against the physical destruction of the steering lock	25/2027	. . {with data signals passing through the human body}
25/04	. . operating on the propulsion system, e.g. engine or drive motor	25/2036	. . {by using the door logic and door and engine unlock means}
2025/0405	. . . {from the external}	25/2045	. . {by hand gestures}
2025/041	. . . {Preventing use of engine operating on the fluid supply}	25/2054	. . {by foot gestures}
2025/0415	. . . {with safe immobilisation}	25/2063	. . {Ignition switch geometry}
25/042	. . . operating on the fuel supply	25/2072	. . {with means for preventing jamming or interference of a remote switch control signal}
25/043	. . . by blocking the exhaust	25/2081	. . {combined with personal settings of other vehicle devices, e.g. mirrors, seats, steering wheels}
25/044	. . . by limiting or blocking the air supply	25/209	. . {Remote starting of engine}
25/045	. . . by limiting or cutting the electrical supply to the propulsion unit	25/21	. . using hidden switches
25/06	. . . operating on the vehicle transmission	25/22	. . using mechanical identifiers
25/063	. . . . {Locking of foot actuated control actuating means}	25/225	. . . {key in lock presence switch}
25/066	. . . . {Locking of hand actuated control actuating means}	25/23	. . using manual input of alphanumerical codes
25/08	. . operating on brakes or brake systems	25/24	. . using electronic identifiers containing a code not memorised by the user
25/083	. . . {Locking of foot-actuated control actuating means}	25/241	. . . {whereby access privileges are related to the identifiers}
25/086	. . . {Locking of hand-actuated control actuating means}	25/243	. . . {with more than one way to gain access}
25/09	. . by restraining wheel rotation, e.g. wheel clamps	25/245	. . . {where the antenna reception area plays a role}
25/093	. . . {comprising ground-engaging means}	25/246	. . . {characterised by the challenge triggering}
25/096	. . . {comprising means for deflating tyres}	25/248	. . . {Electronic key extraction prevention}
25/10	. actuating a signalling device	25/25	. . using biometry
25/1001	. . {Alarm systems associated with another car fitting or mechanism, e.g. door lock or knob, pedals (features related to the general power supply <a href="#">B60R 25/1018</a> )}	25/252	. . . {Fingerprint recognition}
25/1003	. . {Alarm systems characterised by arm or disarm features}	25/255	. . . {Eye recognition}
25/1004	. . {Alarm systems characterised by the type of sensor, e.g. current sensing means (using door lock sensors <a href="#">B60R 25/1001</a> )}	25/257	. . . {Voice recognition}
25/1006	. . . {Mechanical sensors, e.g. pendulums ( <a href="#">B60R 25/101</a> takes precedence)}	25/30	. Detection related to theft or to other events relevant to anti-theft systems
25/1007	. . . . {comprising associated circuitry}	25/302	. . {using recording means, e.g. black box}
25/1009	. . . {Sonic sensors; Signal treatment therefor}	25/305	. . {using a camera}
25/101	. . . {Fuel level sensors}	25/307	. . {using data concerning maintenance or configuration}
25/1012	. . . {Zone surveillance means, e.g. parking lots, truck depots}	25/31	. . of human presence inside or outside the vehicle
2025/1013	. . {Alarm systems characterised by the type of warning signal, e.g. visual, audible}	25/32	. . of vehicle dynamic parameters, e.g. speed or acceleration
2025/1015	. . . {Signal coming from the exhaust}	25/33	. . of global position, e.g. by providing GPS coordinates
2025/1016	. . . {Remote signals alerting owner or authorities, e.g. radio signals}	25/34	. . of conditions of vehicle components, e.g. of windows, door locks or gear selectors
25/1018	. . {Alarm systems characterised by features related to the general power supply}	25/40	. Features of the power supply for the anti-theft system, e.g. anti-theft batteries, back-up power supply or means to save battery power
25/102	. . a signal being sent to a remote location, e.g. a radio signal being transmitted to a police station, a security company or the owner	25/403	. . {Power supply in the vehicle}
25/1025	. . . {preventing jamming or interference of said signal}	25/406	. . {Power supply in the remote key}
25/104	. . characterised by the type of theft warning signal, e.g. visual or audible signals with special characteristics	<b>99/00</b>	<b>Subject matter not provided for in other groups of this subclass</b>
25/1045	. . . {Signal coming from the exhaust}	2099/005	. {Protections against martens or rodents}
25/20	. Means to switch the anti-theft system on or off	<b>2225/00</b>	<b>Means indicating the functioning state of the alarm system, e.g. indicating arming, using leds</b>
25/2009	. . {Antitheft state indicator}	<b>2300/00</b>	<b>Details of viewing arrangements using cameras and displays, specially adapted for use in a vehicle</b>
25/2018	. . {Central base unlocks or authorises unlocking}	2300/10	. characterised by the type of camera system used
		2300/101	. . using cameras with adjustable capturing direction
		2300/102	. . using 360 degree surveillance camera system
		2300/103	. . using camera systems provided with artificial illumination device, e.g. IR light source
		2300/105	. . using multiple cameras
		2300/106	. . using night vision cameras
		2300/107	. . using stereoscopic cameras

2300/108	. . using 'non-standard' camera systems, e.g. camera sensor used for additional purposes i.a. rain sensor, camera sensor split in multiple image areas	2325/00	<b>Indexing scheme relating to vehicle anti-theft devices</b>
2300/20	. characterised by the type of display used	2325/10	. Communication protocols, communication systems of vehicle anti-theft devices
2300/202	. . displaying a blind spot scene on the vehicle part responsible for the blind spot	2325/101	. . Bluetooth
2300/205	. . using a head-up display	2325/103	. . Near field communication [NFC]
2300/207	. . using multi-purpose displays, e.g. camera image and navigation or video on same display	2325/105	. . Radio frequency identification data [RFID]
2300/30	. characterised by the type of image processing	2325/106	. . Internet
2300/301	. . combining image information with other obstacle sensor information, e.g. using RADAR/LIDAR/SONAR sensors for estimating risk of collision	2325/108	. . Encryption
2300/302	. . combining image information with GPS information or vehicle data, e.g. vehicle speed, gyro, steering angle data	2325/20	. Communication devices for vehicle anti-theft devices
2300/303	. . using joined images, e.g. multiple camera images	2325/202	. . Personal digital assistant [PDA]
2300/304	. . using merged images, e.g. merging camera image with stored images	2325/205	. . Mobile phones
2300/305	. . . merging camera image with lines or icons	2325/207	. . Satellites
2300/306	. . using a re-scaling of images	2325/30	. Vehicles applying the vehicle anti-theft devices
2300/307	. . virtually distinguishing relevant parts of a scene from the background of the scene	2325/302	. . Airplanes
2300/308	. . . by overlaying the real scene, e.g. through a head-up display on the windscreen	2325/304	. . Boats
2300/40	. characterised by the details of the power supply or the coupling to vehicle components	2325/306	. . Motorcycles
2300/402	. . Image calibration	2325/308	. . Industrial vehicles
2300/404	. . triggering from stand-by mode to operation mode	2325/40	. Programmable elements
2300/406	. . using wireless transmission		
2300/408	. . using a data bus		
2300/50	. characterised by the display information being shared, e.g. external display, data transfer to other traffic participants or centralised traffic controller		
2300/60	. characterised by monitoring and displaying vehicle exterior scenes from a transformed perspective		
2300/602	. . with an adjustable viewpoint		
2300/605	. . . the adjustment being automatic		
2300/607	. . from a bird's eye viewpoint		
2300/70	. characterised by an event-triggered choice to display a specific image among a selection of captured images		
2300/80	. characterised by the intended use of the viewing arrangement		
2300/8006	. . for monitoring and displaying scenes of vehicle interior, e.g. for monitoring passengers or cargo		
2300/8013	. . . for child monitoring		
2300/802	. . for monitoring and displaying vehicle exterior blind spot views		
2300/8026	. . . in addition to a rear-view mirror system		
2300/8033	. . for pedestrian protection		
2300/804	. . for lane monitoring		
2300/8046	. . for replacing a rear-view mirror system		
2300/8053	. . for bad weather conditions or night vision		
2300/806	. . for aiding parking		
2300/8066	. . for monitoring rearward traffic		
2300/8073	. . for vehicle security, e.g. parked vehicle surveillance, burglar detection		
2300/808	. . for facilitating docking to a trailer		
2300/8086	. . for vehicle path indication		
2300/8093	. . for obstacle warning		