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CPC COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

TRANSPORTING

B61 RAILWAYS

(NOTE omitted)

B61D BODY DETAILS OR KINDS OF RAILWAY VEHICLES (vehicles in general <u>B60</u>;

adaptation of vehicles to special systems <u>B61B</u>; underframes <u>B61F</u>)

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.

Kinds of rail	way or tramway vehicles	3/187	• • • {Details, e.g. bridges for floor connections}
1/00	Carriages for ordinary railway passenger traffic	3/188	• • • • {Wheel guides for the vehicles being
2,00	(mine cars B61D 11/00; tramcars B61D 13/00)	2/20	carried}
1/02	. General arrangements in sleeping or couchette	3/20	for forwarding containers
	carriages (<u>B61D 1/08</u> takes precedence)	5/00	Tank wagons for carrying fluent materials
1/04	• General arrangements of seats (<u>B61D 1/06</u> takes	5/002	• {for particulate or powder materials}
	precedence; seats per se B61D 33/00)	5/004	• • { with loading and unloading means using fluids
1/06	 with multiple deck arrangement 		or vacuum}
1/08	of sleeping carriages	5/006	• • • {with porous walls}
3/00	Wagons or vans (tank wagons <u>B61D 5/00</u> ; hopper	5/008	• {Trackside means for assisting charge or discharge
3/00	wagons 61 Vans (tank wagons 801D 5/00, hopper wagons 861D 7/00; tipping wagons 861D 9/00;		(for hopper cars $\underline{B61D7/32}$)
	mine cars <u>B61D 11/00</u> ; vehicles specially adapted for	5/02	 having more than one tank
	animal transportation <u>B60P 3/04</u> ; {container traffic	5/04	• {with means for cooling, heating, or insulating}
	<u>B65G</u> })	5/06	 Mounting of tanks; Integral bodies and frames
3/005	• {convertible (B61D 3/04, B61D 3/06, B61D 15/04	5/08	• {Covers or access openings; Arrangements thereof}
	take precedence)}	7/00	Hopper cars (flat bottomed cars convertible into
3/02	 with multiple deck arrangements (for carrying 	7700	hoppers B61D 3/06)
	vehicles <u>B61D 3/18</u>)	7/02	• with discharge openings in the bottoms (with body
3/04	 with movable floors, e.g. rotatable or floors which 		in two halves and discharge by tipping the halves
	can be raised or lowered		<u>B61D 9/00</u>)
3/06	 Flat-bottomed cars convertible into hoppers 	7/04	the openings being above axle level during
3/08	• Flat wagons including posts or standards {(open		discharge
	loading compartments for load-carrying vehicles, in	7/06	 with openings capable of discharging both between
	general <u>B62D 33/02</u> ; movable or detachable racks or stanchions <u>B62D 33/0207</u>)}		and outside the wheels
3/10	Articulated vehicles	7/08	 with openings capable of discharging only outside
3/10	comprising running gear interconnected by loads	= 4.0	the wheels
3/12	comprising running gear interconnected by load comprising running gear interconnected by load	7/10	• the discharge being assisted by tipping the bottom
3/14	supports facilitating low-level load transport	7/12	• the hoppers being movable (<u>B61D 9/00</u> takes
3/16	adapted for carrying special loads	7/14	precedence)
3/163	• • {for carrying animals}	7/14 7/16	 Adaptations of hopper elements to railways Closure elements for discharge openings
3/166	• • {for carrying very heavy loads}	7/18	Closure elements for discharge openings pivoted
3/18	• • for vehicles {(vehicles adapted to carry other	7/18	sliding
	vehicles, in general, <u>B60P 3/06</u>)}	7/20	Sealing means thereof
3/181	• • • { with special accommodation for the motor	7/24	Opening or closing means
	vehicle driver or passengers (B61D 1/06 takes	7/24	mechanical
	precedence)}	7/28	hydraulic or pneumatic
3/182	• • • {specially adapted for heavy vehicles, e.g.	7/30	controlled by means external to cars
	<pre>public work vehicles, trucks, trailers}</pre>	7/30	Controlled by means external to cars . Means for assisting charge or discharge
3/184	• • • • {the heavy vehicles being of the trailer or		• • Means for assisting charge of discharge
2/10-	semi-trailer type}	9/00	Tipping wagons
3/185	{Railway vehicles}	9/02	 characterised by operating means for tipping

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9/04	Adaptations of rail vehicle elements to tipping	17/06	End walls
	wagons	17/08	Sides
9/06	Bodies	17/10	Floors
9/08	• • Frames; Supporting or guiding means for the bodies	17/12	• Roofs (movable or foldable roofs, covers or tarpaulins <u>B61D</u> 39/00)
9/10	• Devices preventing overturning when tipping	17/14	with gangways
9/12	 Body fitments or devices facilitating or 	17/16	Hatches in roofs
	controlling outflow on discharge	17/18	Internal lining, e.g. insulating
9/14 11/00	 Tipping systems controlled by trackside means Mine cars (B61D 5/00 - B61D 9/00 take precedence) 	17/185	• • • {for sound insulating (arrangement of engine rooms <u>B61C 17/04</u> ; sound insulating elements
11/02	Body construction		for road vehicles <u>B60R 13/08</u>)}
13/00	Tramway vehicles	17/20	 Communication passages between coaches; Adaptation of coach ends therefor
13/02	. Double-deckers	17/22	flexible, e.g. bellows
15/00	Other mailway wakieles as a spoffeld come	17/24	 with body structures of wood
15/00	Other railway vehicles, e.g. scaffold cars; Adaptations of vehicles for use on railways	17/26	 with body structures of concrete
	(conveyor frames mounted for movement on rail	19/00	Door arrangements specially adapted for rail
	tracks <u>B65G 41/02</u> ; wheeled machines used in	17/00	vehicles (locks for vehicles <u>E05B 77/00-E05B 85/00</u> ;
	permanent way construction or maintenance <u>E01B</u>)		door-operating mechanisms $\underline{E05F}$)
15/02	Breakdown cranes (crane gear <u>B66C</u>)	19/001	• {for wagons or vans (closure elements for
15/04	convertible into other non-vehicular apparatus, e.g. exhibition stands	13,001	hopper car discharge openings <u>B61D 7/16</u> ; doors convertible into loading and unloading ramps
15/06	. Buffer cars; Arrangements or construction of		<u>B61D 47/00;</u> <u>B61D 19/003</u> takes precedence)}
	railway vehicles for protecting them in case of	19/002	• • {specially adapted for grain cars}
	collisions (buffers <u>B61G 11/00</u>)	19/003	• {characterised by the movements of the door}
15/08	 Railway inspection trolleys 	19/004	• • {swinging (<u>B61D 19/008</u> takes precedence)}
15/10	hand or foot propelled	19/005	• • {sliding (<u>B61D 19/008</u> , <u>B61D 19/009</u> take
15/105	• • · · {for cableways}		precedence)}
15/12	• • power propelled	19/006	• • {vertically (<u>B61D 19/006</u> takes precedence)}
15/125	for cableways }	19/007	• • • {The doors being wall panels enabling complete opening of the wagon sides, e.g. for
Body details	of railway or tramway vehicles	10/000	quick loading or unloading}
17/00	Construction details of vehicle bodies (for tank	19/008	• • {both swinging and sliding}
	wagons <u>B61D 5/00</u> ; for hopper cars <u>B61D 7/00</u> ;	19/009	 {both sliding and plugging, (e.g. for refrigerator cars)}
	body details specially adapted for tipping wagons	19/02	• for carriages (<u>B61D 19/003</u> takes precedence)
	<u>B61D 9/06;</u> for mine cars <u>B61D 11/00</u>)	19/023	• • {Emergency exits}
	NOTE	19/026	• • {Safety devices for preventing passengers
	$\{\underline{B61D \ 17/005} \text{ takes precedence over} \\ \underline{B61D \ 17/048} - \underline{B61D \ 17/16}\}$		from being injured by movements of doors or variations in air pressure (safety devices
17/005	• {with bodies characterised by use of plastics		in passenger lifts for preventing trapping of
17/003	materials (<u>B61D 17/005</u> takes precedence; bogie		passengers between closing doors <u>B66B 13/26</u> ; acting on power-operated mechanisms for wings
	frames comprising parts made from fibre einforced		E05F 15/00)}
	matrix material <u>B61F 5/523</u>)}		
17/02	 reducing air resistance by modifying contour {; 	23/00	Construction of steps for railway vehicles (ladders
	Constructional features for fast vehicles sustaining		in general <u>E06C</u>)
	sudden variations of atmospheric pressure, e.g.	23/02	• Folding steps for railway vehicles {, e.g. hand or
	when crossing in tunnels}	22/027	mechanically actuated}
17/04	• with bodies of metal; with composite, e.g. metal and	23/025	{electrically or fluid actuated}
	wood body structures	25/00	Window arrangements peculiar to rail vehicles
17/041	• • {with bodies characterised by use of light metal,		(vehicle window arrangements in general
15/042	e.g. aluminium (<u>B61D 17/045</u> takes precedence)}		B60J ; cleaning vehicle windows B60S ; heating
17/043	• • {connections between superstructure sub-units		arrangements specially adapted for transparent or
17/045	(for road vehicles <u>B62D 27/00</u>)}		reflecting areas <u>H05B 3/84</u>)
17/045	{The sub-units being construction modules (modular super-structures for vehicles carrying	TT4:	line monthetine linktine on sin sonditionine
	a large number of passengers <u>B62D 31/025</u>)}		ling, ventilating, lighting, or air-conditioning, ail vehicles (for vehicles in general B60)
17/046	• • • {readily releasable, i.e. dismountable or	pecunar to r	an venicies (for venicies in general Bou)
17,040	collapsible sub-units, e.g. for shipping	27/00	Heating, cooling, ventilating, or air-conditioning
	(convertible wagons <u>B61D 3/005</u>)}		{(heating, cooling or ventilating devices for vehicles
17/048	• • {Interior walls, e.g. separation walls between		in general <u>B60H 1/00</u> ; devices for moistening air
	compartments (<u>B61D 17/06</u> , <u>B61D 17/08</u> ,		in vehicles <u>B60H 3/02</u> ; devices for filtering air in
	B61D 17/18 take precedence)}		vehicles <u>B60H 3/06</u>)}

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27/0018 • {Air-conditioning means, i.e. combining at least two of the following ways of treating or supplying air, namely heating, cooling or ventilating (air-conditioning in general F24F)} 27/0027 • {for freight cars; Isothermic wagons} 27/0036 • {Means for heating only (heating in general F24)} 27/0045 • {Electric heating (for vehicles in general B60L 1/02)} 27/0054 • {Combined with heating means using recuperated energy from other sources, e.g. from the brakes} 27/0052 • {the heat being derived from independent means, i.e. autonomous devices, e.g. stoves} 27/0072 • {Means for cooling only (cooling in general F25)} 27/0073 • {Means for cooling only (cooling in general F25)} 27/0074 • {Owagons for transporting refrigerated goods (vehicles for transporting refrigerated goods B60P 3/20)} 27/0075 • {Means for ventilating only (ventilation in general F25)} 27/0076 • {Means for ventilating only (ventilation in general F25)} 27/0077 • {Means for ventilating only (ventilation in general F25)} 27/0078 • {Means for ventilating only (ventilation in general F25)} 27/009 • {Means for ventilating only (ventilation in general F24)} 29/00 • Lighting	27/0009	• {Means for controlling or equalizing air pressure shocks in trains, e.g. when passing or crossing in tunnels}	39/002 39/003 39/005	{Sliding or folding roofs}. {telescopic}. {for articulated wagons}
27/0027 • {for freight cars; Isothermic wagons} 27/0036 • {Means for heating only (heating in general F24)} 27/0045 • {Electric heating (for vehicles in general B60) • {Sealing means}} 39/008 • {Sealing means} 41/00 Indicators for reserved seats; Warning or like signs; Devices or arrangements in connection with tickets, e.g. ticket holders; Holders for cargo tickets or the like 41/02 • Holders or devices for cargo tickets or the like 41/04 • Indicators for reserved seats 41/06 • Holders or devices for cargo tickets or the like 41/06 • Holders for fare tickets 41/06 • H	27/0018	two of the following ways of treating or supplying air, namely heating, cooling or ventilating (air-	39/006	 {Opening and closing means} {Controlled by trackside means (systems for tipping wagons controlled by trackside means
27/0045 • • {Electric heating (for vehicles in general B60H 1/2215; supplying electric power to electric heating circuits of electrically-propelled vehicles B60L 1/02)} 27/0054 • • {combined with heating means using recuperated energy from other sources, e.g. from the brakes} 27/0063 • • {the heat being derived from independent means, i.e. autonomous devices, e.g. stoves} 27/0072 • {Means for cooling only (cooling in general F25)} 27/0081 • • {of wagons for transporting refrigerated goods (vehicles for transporting refrigerated goods B60P 3/20)} 27/009 • {Means for ventilating only (ventilation in general F24F)} 29/00 • Lighting • • • {Tixing sheet metal, boxes, or the like} 41/00 • {Fixing semi-trailers (wagons for transporting genical fifth wheel locks} 41/00 • • {Fixing semi-trailers (wagons for transporting genical fifth wheel locks} • • • • • • • • • • • • • • • • • • •	27/0027		39/008	
B60H 1/2215; supplying electric power to electric heating circuits of electrically-propelled vehicles B60L 1/02)} 27/0054 • {combined with heating means using recuperated energy from other sources, e.g. from the brakes} 27/0063 • {the heat being derived from independent means, i.e. autonomous devices, e.g. stoves} 27/0072 • {Means for cooling only (cooling in general F25)} 27/0081 • {of wagons for transporting refrigerated goods (vehicles for transporting refrigerated goods B60P 3/20)} 27/009 • {Means for ventilating only (ventilation in general F24F)} 29/00 Lighting 45/001 • {Fixing sheet metal, boxes, or the like} Furniture or furnishings peculiar to rail vehicles (for vehicles in general B60) **Tools** *			41/00	Indicators for resourced scots: Worming or like
27/0054 . (combined with heating means using recuperated energy from other sources, e.g. from the brakes) 27/0063 . (the heat being derived from independent means, i.e. autonomous devices, e.g. stoves) 27/0072 . {Means for cooling only (cooling in general F25)} 27/0081 . (of wagons for transporting refrigerated goods (vehicles for transporting the cargo, including protection against shocks (for vehicles in general B60P 7/00) 27/009 Lighting	27/0045	<u>B60H 1/2215</u> ; supplying electric power to electric heating circuits of electrically-propelled vehicles	41/00	signs; Devices or arrangements in connection with tickets, e.g. ticket holders; Holders for cargo
energy from other sources, e.g. from the brakes 27/0063 . {the heat being derived from independent means, i.e. autonomous devices, e.g. stoves} 27/0072 . {Means for cooling only (cooling in general F25)} 27/0081 . {of wagons for transporting refrigerated goods (vehicles for transporting refrigerated goods (vehicles for vehicles for vehicles in general B60) 27/009 . {Means for ventilating only (ventilation in general F24F)} 29/00 Lighting 41/04 . Indicators for reserved seats 41/06 . Holders for fare tickets 43/00 Devices for using the energy of the movements of the vehicles 45/00 Means or devices for securing or supporting the cargo, including protection against shocks (for vehicles in general B60P 7/00) 45/001 . {Devices for fare tickets 43/00 Devices for using the energy of the movements of the vehicles 45/00 Means or devices for securing or supporting the cargo, including protection against shocks (for vehicles in general B60P 7/00) 45/001 . {Devices for fare tickets 43/00 Devices for using the energy of the movements of the vehicles 45/00 Vehicles in general B60P 7/00 45/001 . {Devices for securing or supporting the cargo, including protection against shocks (for vehicles in general B60P 7/00) 45/002 . {Fixing sheet metal, boxes, or the like} 45/003 . {Fixing of logs, beams, barrels, pipes, or the like} 45/004 . {Fixing semi-trailers (wagons for transporting semi-trailers B61D 3/184)} 45/005 {by using fifth wheel locks}	27/0054	,	41/02	. Holders or devices for cargo tickets or the like
i.e. autonomous devices, e.g. stoves} 27/0072			41/04	 Indicators for reserved seats
27/0072 . {Means for cooling only (cooling in general F25)} 27/0081 . {of wagons for transporting refrigerated goods (vehicles for transporting or supporting the cargo, including protection against shocks (for vehicles in general B60P 7/00) 27/009 . {Means for ventilating only (ventilation in general F24F)} 45/001 . {Devices for fixing to walls or floors} 45/002 . {Fixing sheet metal, boxes, or the like} 45/003 . {Fixing of logs, beams, barrels, pipes, or the like} 45/004 . {Fixing semi-trailers (wagons for transporting semi-trailers B61D 3/184)} 45/005 {by using fifth wheel locks}	27/0063	• • {the heat being derived from independent means,	41/06	 Holders for fare tickets
(vehicles for transporting refrigerated goods		• {Means for cooling only (cooling in general <u>F25</u>)}	43/00	9 94
29/00 Lighting 45/001 . {Devices for fixing to walls or floors} 45/002 . {Fixing sheet metal, boxes, or the like} 45/003 . {Fixing of logs, beams, barrels, pipes, or the like} Furniture or furnishings peculiar to rail vehicles (for vehicles in general B60) 45/004 . {Fixing semi-trailers (wagons for transporting semi-trailers B61D 3/184)} 45/005 {by using fifth wheel locks}		(vehicles for transporting refrigerated goods	45/00	cargo, including protection against shocks (for
29/00 Lighting 45/002 . {Fixing sheet metal, boxes, or the like} 45/003 . {Fixing of logs, beams, barrels, pipes, or the like} Furniture or furnishings peculiar to rail vehicles (for vehicles in general B60) 45/004 . {Fixing sheet metal, boxes, or the like} Fixing of logs, beams, barrels, pipes, or the like 45/004 . {Fixing sheet metal, boxes, or the like} Fixing sheet metal, boxes, or the like} 45/005 . {Fixing sheet metal, boxes, or the like} 45/005 . {Fixing sheet metal, boxes, or the like} 45/005 . {Fixing sheet metal, boxes, or the like} 45/005 . {Fixing sheet metal, boxes, or the like} 45/005 . {Fixing sheet metal, boxes, or the like} 45/005 . {Fixing sheet metal, boxes, or the like} 45/005 . {Fixing sheet metal, boxes, or the like} 45/005 . {Fixing sheet metal, boxes, or the like} 45/005 . {Fixing sheet metal, boxes, or the like}	27/009	• {Means for ventilating only (ventilation in general		
Lighting 45/003 Furniture or furnishings peculiar to rail vehicles (for vehicles in general B60) 45/004 Fixing of logs, beams, barrels, pipes, or the like Fixing semi-trailers (wagons for transporting semi-trailers B61D 3/184)} 45/005 45/005 Fixing of logs, beams, barrels, pipes, or the like 45/004 Fixing semi-trailers (wagons for transporting semi-trailers B61D 3/184)} 45/005 • Spusing fifth wheel locks		<u>F24F</u>)}	45/001	• {Devices for fixing to walls or floors}
Furniture or furnishings peculiar to rail vehicles (for vehicles in general B60) 45/003 • Fixing of logs, beams, barrels, pipes, or the like • Fixing semi-trailers (wagons for transporting semi-trailers B61D 3/184)} • Semi-trailers B61D 3/184) • Semi-trailers B61D 3/184) • Semi-trailers B61D 3/184)	29/00	Lighting		
general B60) semi-trailers B61D 3/184)} 45/005 {by using fifth wheel locks}	25/00	Lighting		
45/005 {by using fifth wheel locks}		furnishings peculiar to rail vehicles (for vehicles in	45/004	
31/00 Sleeping accommodation 45/006 . {Fixing by movable walls}			45/005	• • • {by using fifth wheel locks}
	31/00	Sleeping accommodation	45/006	• {Fixing by movable walls}

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33/00	Seats
33/0007	• {Details; Accessories}
33/0014	• • {Seat frames (<u>B61D 33/0092</u> takes precedence)}
33/0021	• • • {for adjustable or reclining seats}
33/0028	• • • {for reversible seats}
33/0035	• • {Cushions or the like; Covers}
33/0042	{Spring cushions}
33/005	• • {Head, arm or footrests}
33/0057	• {characterised by their mounting in vehicles
	(<u>B61D 33/0028</u> and <u>B61D 33/0092</u> take
	precedence)}
33/0064	• • {not adjustably mounted; supports therefor}
33/0071	• • • {Removable seats}
33/0078	• • {adjustably mounted}
33/0085	• • · {rotatably}
33/0092	• {Safety seats, e.g. comprising safety locking means;
	Seats for children}
35/00	Sanitation

35/00	Sanitation

35/002 • {Washing facilities} 35/005 • {Toilet facilities}

35/007 • • {comprising toilet waste receiving, treatment, storage, disposal or removal devices}

37/00 Other furniture or furnishings

37/003 {luggage rack and umbrella-stand for rail vehicles (luggage racks within vehicle bodies in general, e.g. busses <u>B60R 5/003</u>)}

37/006 • {for restaurant cars or the like}

Other details peculiar to rail vehicles (for vehicles in general B60)

39/00 Wagon or like covers; Tarpaulins; Movable or foldable roofs

39/001 • {Tiltable roofs}

containers <u>B61D 3/20</u>)} 45/008 • {Shock absorbing devices} 47/00 Loading or unloading devices combined with vehicles, e.g. loading platforms, {doors convertible into loading and unloading ramps}(combined with vehicles in general <u>B60P</u>)

• {Fixing containers (vehicles for transporting

• {Loading or unloading devices combined with road vehicles carrying wagons, e.g. ramps, turntables, lifting means (wagons for carrying road vehicles in general: <u>B61D 3/18</u>)}

49/00 Other details

45/007

47/005

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