CPC COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

TRANSPORTING

B60 VEHICLES IN GENERAL

(NOTE omitted)

B60B VEHICLE WHEELS (making wheels or wheel parts by rolling <u>B21H 1/00</u>, by forging,

hammering or pressing B21K 1/28); CASTORS; AXLES FOR WHEELS OR CASTORS;

INCREASING WHEEL ADHESION

NOTE

Attention is drawn to the Explanatory Note following the class title (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.

or wheel parts	els for roller skates A63C 17/22; making wheels s B21D 53/26; by rolling B21H 1/00; by forging, r pressing B21K 1/28)	1/045 1/046	 {characterised by their specific shape} {characterised by adaptations of the nipple for tightening tools}
1/00	Spoked wheels; Spokes thereof (non-metallic <u>B60B 5/00</u> {; spoked wheels comprising rail-engaging elements <u>B60B 17/001</u> ; making wheel spokes <u>B21F 39/00</u> })	1/047 1/048 1/06	 {the nipple comprising sealing means} {by the use of screws} . Wheels with compression spokes (wheels of high resiliency B60B 9/00)
1/003	• {specially adapted for bicycles (<u>B60B 1/041</u> takes precedence)}	1/08 1/10	 formed by casting fabricated by sheet metal (B60B 1/12, B60B 3/08 take precedence)
1/006	 {specially adapted for light-weight wheels, e.g. of strollers or wheel-chairs (<u>B60B 1/003</u> takes precedence)} 	1/12	take precedence) • with tubular spokes (<u>B60B 1/08</u> takes precedence)
1/02	• Wheels with wire or other tension spokes	1/14	Attaching spokes to rim or hub
1/0207	• • {characterised by non-standard number of spokes, i.e. less than 12 or more than 32 spokes}	3/00	Disc wheels, i.e. wheels with load-supporting disc body (non- metallic <u>B60B 5/00</u> ; wheel cover discs
1/0215	• • {characterised by specific grouping of spokes}		B60B 7/00 {; disc wheels comprising rail-engaging
1/0223	• • • {the dominant aspect being the spoke arrangement pattern}	3/001	elements <u>B60B 17/0006</u> }) • {Lightweight wheels, e.g. for strollers or toys}
1/023	• • • {multiple exclusively parallel spokes arranged in a group}	3/002 3/004	{characterised by the shape of the disc}{in the hub section}
1/0238	• • • {the dominant aspect being the number of spokes per group}	3/005	• • {in the section adjacent to rim}
1/0246	{characterised by cross-section of the spoke, e.g. polygon or elliptic shape}	3/007 3/008	 {in the intermediate section} {by the form of wheel bolt mounting section}
1/0253	• {the spoke being hollow}	3/02	• with a single disc body integral with rim
1/0261	• {characterised by spoke form}	3/04	 with a single disc body not integral with rim i.e. disc body and rim being manufactured
1/0269	• • • {the spoke being curved or deformed over substantial part of length}		independently and then permanently attached to each other in a second step, e.g. by welding}
1/0276	• • • {the spoke being crooked in the middle and having double length}	3/041	{characterised by the attachment of rim to wheel disc}
1/0284	• • { the spoke being threaded at both ends}	3/042	• • • {characterised by circumferential position of
1/0292	• • { the spoke being bent at both ends }	3/012	attachment means}
1/04	Attaching spokes to rim or hub	3/044	• • • {characterised by cross-sectional details of the
1/041	• • • {of bicycle wheels (bicycle rims characterised		attachment, e.g. the profile}
1/0/42	by means for attaching spokes <u>B60B 21/062</u>)}	3/045	• • • {characterised by the attachment portions}
1/042	{Attaching spokes to hub}	3/047	• • • {comprising specific torque transmitting
1/043 1/044	 {Attaching spokes to rim} {by the use of spoke nipples}		means}
1/044	• • • {by the use of spoke inppies}		

Wheels B60B

3/048	• • {the rim being rotatably mounted to the wheel disc}	7/04	 built-up of several main parts (<u>B60B 7/01</u>, <u>B60B 7/20</u> take precedence)
3/06	• formed by casting	7/06	• Fastening arrangements therefor (B60B 7/01,
3/08	 with disc body formed by two or more axially 		B60B 7/20 take precedence)
	spaced discs {(comprising rail-engaging elements	7/061	• • {characterised by the part of the wheels to which
	formed by two or more axially spaced discs	7/062	the discs, rings or the like are mounted}
2/092	B60B 17/0013)}	7/063	• • {to the rim}
3/082 3/085	• {especially for light-weight wheels}• {Discs having no mutual contact}	7/065	• • {to the disc}
	· · · · · · · · · · · · · · · · · · ·	7/066	• • {to the hub}
3/087 3/10	 {Discs having several mutual contact regions} apertured to simulate spoked wheels 	7/068	• • {to the wheel bolts or wheel nuts}
3/10	 apertured to simulate spoked wheels Means of reinforcing disc bodies 	7/08	 having gripping elements consisting of formations integral with the cover
3/12	 Means of remotering disc bodies Attaching disc body to hub (resiliently <u>B60B 9/00</u>; 	7/10	comprising a plurality of spaced spring clips
3/14	attaching rim to wheel body <u>B60B 23/00</u>) {; Wheel adapters}	7/10	individually mounted on the cover, e.g. riveted, welded or readily releasable
3/142	• • {by central locking nut}	7/105	• • { the spring clip mounted on the rim}
3/145	• • {using washers or distance bushes}	7/12	 comprising an annular spring or gripping
3/147	• • {using wheel adapters}		element mounted on the cover (B60B 7/08 takes
3/16	by bolts or the like		precedence)
3/165	• • { with locking devices for the fixing means, e.g.	7/14	 comprising screw-threaded means
	screw or nut covers}	7/16	 Anti-theft devices
3/18	by circlips or the like	7/18	 simulating spoked or wire wheel
5/00	Wheels, spokes, disc bodies, rims, hubs, wholly	7/20	. having an element mounted for rotation
3/00	or predominantly made of non-metallic material		independently of wheel rotation
	(wheel cover discs <u>B60B 7/00</u> ; wheels of high	9/00	Wheels of high resiliency {, e.g. with conical
	resiliency <u>B60B 9/00</u> {; wheel bodies comprising		interacting pressure-surfaces (resilient wheels
	rail-engaging elements characterised by use of non-		comprising rail-engaging elements <u>B60B 17/0027</u>)}
	metallic material B60B 17/0003})	9/005	• {Comprising a resilient hub (hubs per se
5/02	 made of synthetic material 		<u>B60B 27/00</u>)}
5/04	. made of wood	9/02	 using springs {resiliently mounted bicycle rims} (wheels comprising resilient spokes <u>B60B 9/26</u>)
7/00	Wheel cover discs, rings, or the like, for	9/04	in leaf form
	ornamenting, protecting {, venting,} or obscuring,	9/06	in helical form
	wholly or in part, the wheel body, rim, hub, or	9/08	in flat coiled form
	tyre sidewall {, e.g. wheel cover discs, wheel cover discs with cooling fins (wheels with cooling fins	9/10	• of rubber or the like
	not provided on the wheel cover disc <u>B60B 19/10</u> ;	9/12	in the form of sleeves or rings concentric with
	apparatus or tools for removing or attaching cover		the wheel axis
	discs hub caps or the like <u>B60B 31/06</u>)}	9/14	with means limiting relative lateral movements
7/0006	• {for cycle wheels or similar}		between hub and remainder of wheel
7/0013	• {Hub caps}	9/16	modified to ensure electric conductivity
7/002	• {being of the ventilated type}	9/18	• using fluid (within spokes <u>B60B 9/26</u>)
7/0026	• {characterised by the surface}	9/20	in rings concentric with wheel axis
7/0033	• {the dominant aspect being the surface	9/22	inflatable
.,	appearance}	9/24	with pistons and cylinders
7/004	• • {the surface being painted}	9/26	 comprising resilient spokes
7/0046	• • {the surface being plated or coated}	9/28	with telescopic action
7/0053	• • {the surface being decorated}	11/00	TI-24
7/006	• • { the surface being reflective or including lighting }	11/00	Units comprising multiple wheels arranged side by side; Wheels having more than one rim or capable of carrying more than one tyre
7/0066	• • {the dominant aspect being the surface structure}	11/02	• Units of separate wheels mounted for independent
7/0073	{being completely closed, i.e. having no		or coupled rotation
	cooling openings for the brakes}	11/04	• Wheels with a rim capable of carrying more than
7/008	• • • {having decorative holes or openings, i.e.		one tyre
	openings going beyond mere cooling openings}	11/06	. Wheels with more than one rim mounted on a single
7/0086	• • {having cooling fins}		wheel body
	• {being reinforced against thermal deformation}	11/08	Arrangements of balancing mechanisms enabling a
7/0093			
7/0093 7/01	 Rings specially adapted for covering only the 		uniform distribution of load to tyres
	 Rings specially adapted for covering only the wheel rim or the tyre sidewall, e.g. removable tyre 	11/10	
	 Rings specially adapted for covering only the 	11/10	uniform distribution of load to tyres

Wheels B60B

15/00	Wheels or wheel attachments designed for increasing traction (vehicle tires <u>B60C</u> ; non-skid	17/0075	• • {the flange being movable, for adaptation to variable rail or track widths}
	devices temporarily attachable to resilient tires or	17/0079	• {the flange having a guide wheel}
15/02	resiliently-tired wheels <u>B60C</u>)	17/0082	• {Wheels designed to interact with a particular rail
15/02	• Wheels with spade lugs	17/0096	profile}
15/021	• • {made of resilient material}	17/0086	 {H-type rail profiles, i.e. the wheels are arranged between upper and lower rail extensions}
15/023	• • {being of the broad form type}	17/0020	
15/025	• • { with non-cylindrical shape }	17/0089	{Circular rail profiles}
15/026	{characterised by mud deposit prevention}	17/0093	. {Rectangular rail profiles}. {Triangular rail profiles}
15/028	• • {characterised by active rotation of the lugs}	17/0096	
15/04	• with resiliently-mounted spade lugs	17/02	• with elastic tyres
15/06	• with pivotally-mounted spade lugs	19/00	Wheels not otherwise provided for or having
15/08	• with spade lugs axially displaced relatively to the tread surface of the tire		characteristics specified in one of the subgroups of this group
15/10	with radially-adjustable spade lugs; Control	19/003	• {Multidirectional wheels}
	mechanisms therefor	19/006	• {Magnetic wheels}
15/12	involving cams or eccentric hoops	19/02	• convertible, e.g. from road wheel to rail wheel;
15/14	involving an axially-displaceable cone		Wheels specially designed for alternative use on
15/16	involving gearing, e.g. gear pinions acting upon		road and rail
	threaded shafts on the spade lugs	19/04	• expansible
15/18	• Wheels with ground-engaging plate-like shoes	19/06	. with compartments for fluid, packing or loading
15/20	• with resiliently-mounted shoes, e.g. on a spider		material; Buoyant wheels
15/22	connected by links to the hub	19/08	. with lubricating passages, channels, or reservoirs
15/24	Tread bands or rings for fairing lugs when travelling	19/10	 with cooling fins
	on the road	19/12	• Roller-type wheels (<u>B60B 19/06</u> takes precedence)
15/26	Auxiliary wheels or rings with traction-increasing	19/125	{with helical projections on radial outer surface
15/263	surface attachable to the main wheel body {Traction increasing surface being located axially		translating rotation of wheel into movement along
13/203	beside tire}		the direction of the wheel axle}
15/266	{Traction increasing surface being located radially outside tire circumferential surface}	19/14	• Ball-type wheels (<u>B60B 19/06</u> takes precedence)
15/28	Wheel-ballasting weights; Their attachment	Rims; Hubs	
13/20		21/00	Rims (non-metallic <u>B60B 5/00</u> ; of high resiliency
17/00	Wheels characterised by rail-engaging elements ({wheel-axle combinations <u>B60B 37/00;</u> } of model	21/00	B60B 9/00; capable of carrying more than one tyre B60B 11/04; multiple rims on a single wheel body
	Wheels characterised by rail-engaging elements ({wheel-axle combinations <u>B60B 37/00;</u> } of model railways <u>A63H 19/22</u>) . {Wheel bodies characterised by use of non-metallic	21/00	B60B 9/00; capable of carrying more than one tyre
17/00 17/0003	Wheels characterised by rail-engaging elements ({wheel-axle combinations <u>B60B 37/00;</u> } of model railways <u>A63H 19/22</u>) • {Wheel bodies characterised by use of non-metallic material (<u>B60B 17/0034</u> takes precedence)}	21/02	B60B 9/00; capable of carrying more than one tyre B60B 11/04; multiple rims on a single wheel body B60B 11/06; of multi-part type B60B 25/00; metal tyres B60C) characterised by transverse section
17/00 17/0003 17/0006	Wheels characterised by rail-engaging elements ({wheel-axle combinations B60B 37/00;} of model railways A63H 19/22) • {Wheel bodies characterised by use of non-metallic material (B60B 17/0034 takes precedence)} • {Construction of wheel bodies, e.g. disc wheels (B60B 17/0003 takes precedence)}		<u>B60B 9/00</u> ; capable of carrying more than one tyre <u>B60B 11/04</u> ; multiple rims on a single wheel body <u>B60B 11/06</u> ; of multi-part type <u>B60B 25/00</u> ; metal tyres <u>B60C</u>)
17/00 17/0003 17/0006 17/001	Wheels characterised by rail-engaging elements ({wheel-axle combinations B60B 37/00;} of model railways A63H 19/22) • {Wheel bodies characterised by use of non-metallic material (B60B 17/0034 takes precedence)} • {Construction of wheel bodies, e.g. disc wheels (B60B 17/0003 takes precedence)} • {Spoked wheels; Spokes thereof}	21/02	B60B 9/00; capable of carrying more than one tyre B60B 11/04; multiple rims on a single wheel body B60B 11/06; of multi-part type B60B 25/00; metal tyres B60C) characterised by transverse section with inwardly directed flanges, i.e. the tyre-seat
17/00 17/0003 17/0006	Wheels characterised by rail-engaging elements ({wheel-axle combinations B60B 37/00;} of model railways A63H 19/22) • {Wheel bodies characterised by use of non-metallic material (B60B 17/0034 takes precedence)} • {Construction of wheel bodies, e.g. disc wheels (B60B 17/0003 takes precedence)} • {Spoked wheels; Spokes thereof} • {formed by two or more axially spaced discs}	21/02 21/021	B60B 9/00; capable of carrying more than one tyre B60B 11/04; multiple rims on a single wheel body B60B 11/06; of multi-part type B60B 25/00; metal tyres B60C) • characterised by transverse section • {with inwardly directed flanges, i.e. the tyre-seat being reversed}
17/00 17/0003 17/0006 17/001 17/0013 17/0017	Wheels characterised by rail-engaging elements ({wheel-axle combinations B60B 37/00;} of model railways A63H 19/22) • {Wheel bodies characterised by use of non-metallic material (B60B 17/0034 takes precedence)} • {Construction of wheel bodies, e.g. disc wheels (B60B 17/0003 takes precedence)} • • {Spoked wheels; Spokes thereof} • • {formed by two or more axially spaced discs} • • {with insonorisation means}	21/02 21/021 21/023	B60B 9/00; capable of carrying more than one tyre B60B 11/04; multiple rims on a single wheel body B60B 11/06; of multi-part type B60B 25/00; metal tyres B60C) characterised by transverse section with inwardly directed flanges, i.e. the tyre-seat being reversed} telloption for the tyre-seat being reversed.
17/00 17/0003 17/0006 17/001 17/0013	Wheels characterised by rail-engaging elements ({wheel-axle combinations B60B 37/00;} of model railways A63H 19/22) • {Wheel bodies characterised by use of non-metallic material (B60B 17/0034 takes precedence)} • {Construction of wheel bodies, e.g. disc wheels (B60B 17/0003 takes precedence)} • • {Spoked wheels; Spokes thereof} • • {formed by two or more axially spaced discs} • • {with insonorisation means} • {with counter-balance}	21/02 21/021 21/023 21/025	B60B 9/00; capable of carrying more than one tyre B60B 11/04; multiple rims on a single wheel body B60B 11/06; of multi-part type B60B 25/00; metal tyres B60C) characterised by transverse section with inwardly directed flanges, i.e. the tyre-seat being reversed} fthe transverse section being non-symmetrical the transverse section being hollow
17/00 17/0003 17/0006 17/001 17/0013 17/0017	Wheels characterised by rail-engaging elements ({wheel-axle combinations B60B 37/00;} of model railways A63H 19/22) . {Wheel bodies characterised by use of non-metallic material (B60B 17/0034 takes precedence)} . {Construction of wheel bodies, e.g. disc wheels (B60B 17/0003 takes precedence)} {Spoked wheels; Spokes thereof} {formed by two or more axially spaced discs} {with insonorisation means} {with counter-balance} {with noise reducing means (B60B 17/0017 takes	21/02 21/021 21/023 21/025 21/026	B60B 9/00; capable of carrying more than one tyre B60B 11/04; multiple rims on a single wheel body B60B 11/06; of multi-part type B60B 25/00; metal tyres B60C) characterised by transverse section with inwardly directed flanges, i.e. the tyre-seat being reversed} fthe transverse section being non-symmetrical fthe transverse section being hollow the shape of rim well
17/00 17/0003 17/0006 17/001 17/0013 17/0017 17/002	Wheels characterised by rail-engaging elements ({wheel-axle combinations B60B 37/00;} of model railways A63H 19/22) • {Wheel bodies characterised by use of non-metallic material (B60B 17/0034 takes precedence)} • {Construction of wheel bodies, e.g. disc wheels (B60B 17/0003 takes precedence)} • {Spoked wheels; Spokes thereof} • {formed by two or more axially spaced discs} • • {with insonorisation means} • {with counter-balance} • {with noise reducing means (B60B 17/0017 takes precedence)} • {Resilient wheels, e.g. resilient hubs (B60B 17/02	21/02 21/021 21/023 21/025 21/026 21/028	B60B 9/00; capable of carrying more than one tyre B60B 11/04; multiple rims on a single wheel body B60B 11/06; of multi-part type B60B 25/00; metal tyres B60C) characterised by transverse section with inwardly directed flanges, i.e. the tyre-seat being reversed} fthe transverse section being non-symmetrical fthe transverse section being hollow fthe shape of rim well} fthe shape of hump}
17/00 17/0003 17/0006 17/001 17/0013 17/0017 17/002 17/0024	Wheels characterised by rail-engaging elements ({wheel-axle combinations B60B 37/00;} of model railways A63H 19/22) • {Wheel bodies characterised by use of non-metallic material (B60B 17/0034 takes precedence)} • {Construction of wheel bodies, e.g. disc wheels (B60B 17/0003 takes precedence)} • {Spoked wheels; Spokes thereof} • • {formed by two or more axially spaced discs} • • {with insonorisation means} • • {with counter-balance} • • {with noise reducing means (B60B 17/0017 takes precedence)} • {Resilient wheels, e.g. resilient hubs (B60B 17/02 takes precedence)}	21/02 21/021 21/023 21/025 21/026 21/028	B60B 9/00; capable of carrying more than one tyre B60B 11/04; multiple rims on a single wheel body B60B 11/06; of multi-part type B60B 25/00; metal tyres B60C) • characterised by transverse section • {with inwardly directed flanges, i.e. the tyre-seat being reversed} • {the transverse section being non-symmetrical} • {the transverse section being hollow} • {the shape of rim well} • {the shape of hump} • with substantially radial flanges (with rail- engaging flanges B60B 17/00) } {(B60B 21/021)}
17/00 17/0003 17/0006 17/001 17/0013 17/0017 17/002 17/0024 17/0027	Wheels characterised by rail-engaging elements ({wheel-axle combinations B60B 37/00;} of model railways A63H 19/22) · {Wheel bodies characterised by use of non-metallic material (B60B 17/0034 takes precedence)} · {Construction of wheel bodies, e.g. disc wheels (B60B 17/0003 takes precedence)} · {Spoked wheels; Spokes thereof} · {formed by two or more axially spaced discs} · · {with insonorisation means} · {with counter-balance} · {with noise reducing means (B60B 17/0017 takes precedence)} · {Resilient wheels, e.g. resilient hubs (B60B 17/02 takes precedence)} · {using springs}	21/02 21/021 21/023 21/025 21/026 21/028 21/04	B60B 9/00; capable of carrying more than one tyre B60B 11/04; multiple rims on a single wheel body B60B 11/06; of multi-part type B60B 25/00; metal tyres B60C) • characterised by transverse section • {with inwardly directed flanges, i.e. the tyre-seat being reversed} • {the transverse section being non-symmetrical} • {the transverse section being hollow} • {the shape of rim well} • {the shape of hump} • with substantially radial flanges (with rail- engaging flanges B60B 17/00) {(B60B 21/021) takes precedence)} • characterised by means for attaching spokes {, i.e. spoke seats}
17/00 17/0003 17/0006 17/001 17/0013 17/0017 17/002 17/0024 17/0027 17/0031 17/0034	Wheels characterised by rail-engaging elements ({wheel-axle combinations B60B 37/00;} of model railways A63H 19/22) · {Wheel bodies characterised by use of non-metallic material (B60B 17/0034 takes precedence)} · {Construction of wheel bodies, e.g. disc wheels (B60B 17/0003 takes precedence)} · . {Spoked wheels; Spokes thereof} · . {formed by two or more axially spaced discs} · . · {with insonorisation means} · . {with counter-balance} · . {with noise reducing means (B60B 17/0017 takes precedence)} · {Resilient wheels, e.g. resilient hubs (B60B 17/02 takes precedence)} · . {using springs} · . · {of rubber or other non-metallic material}	21/02 21/021 21/023 21/025 21/026 21/028 21/04	B60B 9/00; capable of carrying more than one tyre B60B 11/04; multiple rims on a single wheel body B60B 11/06; of multi-part type B60B 25/00; metal tyres B60C) characterised by transverse section (with inwardly directed flanges, i.e. the tyre-seat being reversed} (the transverse section being non-symmetrical) (the transverse section being hollow) (the shape of rim well) (the shape of hump) with substantially radial flanges (with rail- engaging flanges B60B 17/00) ((B60B 21/021 takes precedence)) characterised by means for attaching spokes {, i.e.
17/00 17/0003 17/0006 17/001 17/0013 17/0017 17/002 17/0024 17/0027 17/0031 17/0034 17/0037	Wheels characterised by rail-engaging elements ({wheel-axle combinations B60B 37/00;} of model railways A63H 19/22) · {Wheel bodies characterised by use of non-metallic material (B60B 17/0034 takes precedence)} · {Construction of wheel bodies, e.g. disc wheels (B60B 17/0003 takes precedence)} · . {Spoked wheels; Spokes thereof} · . {formed by two or more axially spaced discs} · . {with insonorisation means} · . {with counter-balance} · . {with noise reducing means (B60B 17/0017 takes precedence)} · {Resilient wheels, e.g. resilient hubs (B60B 17/02 takes precedence)} · . {using springs} · . {of circular or elliptical cross section}	21/02 21/021 21/023 21/025 21/026 21/028 21/04	B60B 9/00; capable of carrying more than one tyre B60B 11/04; multiple rims on a single wheel body B60B 11/06; of multi-part type B60B 25/00; metal tyres B60C) characterised by transverse section (with inwardly directed flanges, i.e. the tyre-seat being reversed} (fthe transverse section being non-symmetrical} (the transverse section being hollow} (the shape of rim well} (the shape of hump} with substantially radial flanges (with rail- engaging flanges B60B 17/00) {(B60B 21/021) takes precedence)} characterised by means for attaching spokes {, i.e. spoke seats} (for bicycles} (characterised by shape of spoke mounting holes,
17/00 17/0003 17/0006 17/001 17/0013 17/0017 17/002 17/0024 17/0027 17/0031 17/0034 17/0037 17/0041	Wheels characterised by rail-engaging elements ({wheel-axle combinations B60B 37/00;} of model railways A63H 19/22) · {Wheel bodies characterised by use of non-metallic material (B60B 17/0034 takes precedence)} · {Construction of wheel bodies, e.g. disc wheels (B60B 17/0003 takes precedence)} · . {Spoked wheels; Spokes thereof} · . {formed by two or more axially spaced discs} · . {with insonorisation means} · . {with counter-balance} · . {with noise reducing means (B60B 17/0017 takes precedence)} · {Resilient wheels, e.g. resilient hubs (B60B 17/02 takes precedence)} · . {using springs} · . {of rubber or other non-metallic material} · {of substantially rectangular cross section}	21/02 21/021 21/023 21/025 21/026 21/028 21/04 21/06 21/062 21/064	B60B 9/00; capable of carrying more than one tyre B60B 11/04; multiple rims on a single wheel body B60B 11/06; of multi-part type B60B 25/00; metal tyres B60C) characterised by transverse section (with inwardly directed flanges, i.e. the tyre-seat being reversed} (fine transverse section being non-symmetrical} (fine transverse section being hollow} (fine shape of rim well} (with substantially radial flanges (with rail- engaging flanges B60B 17/00) {(B60B 21/021) takes precedence)} characterised by means for attaching spokes {, i.e. spoke seats} (for bicycles} (characterised by shape of spoke mounting holes, e.g. elliptical or triangular}
17/00 17/0003 17/0006 17/001 17/0013 17/0017 17/002 17/0024 17/0027 17/0031 17/0037 17/0041 17/0044	Wheels characterised by rail-engaging elements ({wheel-axle combinations B60B 37/00;} of model railways A63H 19/22) . {Wheel bodies characterised by use of non-metallic material (B60B 17/0034 takes precedence)} . {Construction of wheel bodies, e.g. disc wheels (B60B 17/0003 takes precedence)} . {Spoked wheels; Spokes thereof} . {formed by two or more axially spaced discs} {with insonorisation means} . {with counter-balance} . {with noise reducing means (B60B 17/0017 takes precedence)} . {Resilient wheels, e.g. resilient hubs (B60B 17/02 takes precedence)} . {using springs} {of rubber or other non-metallic material} {of substantially rectangular cross section} {single element arranged in V-form}	21/02 21/021 21/023 21/025 21/026 21/028 21/04 21/06	B60B 9/00; capable of carrying more than one tyre B60B 11/04; multiple rims on a single wheel body B60B 11/06; of multi-part type B60B 25/00; metal tyres B60C) characterised by transverse section fethe transverse section being non-symmetrical fethe transverse section being non-symmetrical fethe transverse section being hollow fethe shape of rim well with substantially radial flanges (with rail-engaging flanges B60B 17/00) {(B60B 21/021 takes precedence)} characterised by means for attaching spokes {, i.e. spoke seats} for bicycles for bicycles for attaching holes, e.g. elliptical or triangular the spoke mounting means being located on
17/00 17/0003 17/0006 17/001 17/0013 17/0017 17/002 17/0024 17/0027 17/0031 17/0034 17/0037 17/0041 17/0044 17/0048	Wheels characterised by rail-engaging elements ({wheel-axle combinations B60B 37/00;} of model railways A63H 19/22) . {Wheel bodies characterised by use of non-metallic material (B60B 17/0034 takes precedence)} . {Construction of wheel bodies, e.g. disc wheels (B60B 17/0003 takes precedence)} . {Spoked wheels; Spokes thereof} . {formed by two or more axially spaced discs} {with insonorisation means} . {with counter-balance} . {with noise reducing means (B60B 17/0017 takes precedence)} . {Resilient wheels, e.g. resilient hubs (B60B 17/02 takes precedence)} . {of rubber or other non-metallic material} {of circular or elliptical cross section} {of substantially rectangular cross section} {single element arranged in V-form} {pair of elements arranged in V-form}	21/02 21/021 21/023 21/025 21/026 21/028 21/04 21/06 21/062 21/064	B60B 9/00; capable of carrying more than one tyre B60B 11/04; multiple rims on a single wheel body B60B 11/06; of multi-part type B60B 25/00; metal tyres B60C) characterised by transverse section fethe transverse section being non-symmetrical fethe transverse section being non-symmetrical fethe transverse section being hollow fethe shape of rim well with substantially radial flanges (with railengaging flanges B60B 17/00) {(B60B 21/021 takes precedence)} characterised by means for attaching spokes {, i.e. spoke seats} for bicycles for bicycles fethe spoke mounting means being located on a flange oriented radially and formed on the
17/00 17/0003 17/0006 17/001 17/0013 17/0017 17/002 17/0024 17/0027 17/0031 17/0034 17/0037 17/0044 17/0048 17/0048 17/0051	Wheels characterised by rail-engaging elements ({wheel-axle combinations B60B 37/00;} of model railways A63H 19/22) . {Wheel bodies characterised by use of non-metallic material (B60B 17/0034 takes precedence)} . {Construction of wheel bodies, e.g. disc wheels (B60B 17/0003 takes precedence)} . {Spoked wheels; Spokes thereof} . {formed by two or more axially spaced discs} {with insonorisation means} . {with counter-balance} . {with noise reducing means (B60B 17/0017 takes precedence)} . {Resilient wheels, e.g. resilient hubs (B60B 17/02 takes precedence)} . {using springs} {of rubber or other non-metallic material} {of substantially rectangular cross section} {single element arranged in V-form} {pair of elements arranged in V-form} {using fluid}	21/02 21/021 21/023 21/025 21/026 21/028 21/04 21/06 21/062 21/064 21/066	 B60B 9/00; capable of carrying more than one tyre B60B 11/04; multiple rims on a single wheel body B60B 11/06; of multi-part type B60B 25/00; metal tyres B60C) characterised by transverse section {with inwardly directed flanges, i.e. the tyre-seat being reversed} {the transverse section being non-symmetrical} {the transverse section being hollow} {the shape of rim well} with substantially radial flanges (with railengaging flanges B60B 17/00) {(B60B 21/021 takes precedence)} characterised by means for attaching spokes {, i.e. spoke seats} {for bicycles} {characterised by shape of spoke mounting holes, e.g. elliptical or triangular} {the spoke mounting means being located on a flange oriented radially and formed on the radially inner side of the rim well}
17/00 17/0003 17/0006 17/001 17/0013 17/0017 17/002 17/0024 17/0027 17/0031 17/0034 17/0037 17/0041 17/0044 17/0048	Wheels characterised by rail-engaging elements ({wheel-axle combinations B60B 37/00;} of model railways A63H 19/22) . {Wheel bodies characterised by use of non-metallic material (B60B 17/0034 takes precedence)} . {Construction of wheel bodies, e.g. disc wheels (B60B 17/0003 takes precedence)} . {Spoked wheels; Spokes thereof} . {formed by two or more axially spaced discs} {with insonorisation means} . {with counter-balance} . {with noise reducing means (B60B 17/0017 takes precedence)} . {Resilient wheels, e.g. resilient hubs (B60B 17/02 takes precedence)} . {using springs} {of rubber or other non-metallic material} {of circular or elliptical cross section} {single element arranged in V-form} {pair of elements arranged in V-form} {using fluid} . {with non-elastic tyres (e.g. of particular profile or composition)}	21/02 21/021 21/023 21/025 21/026 21/028 21/04 21/06 21/062 21/064 21/066	 B60B 9/00; capable of carrying more than one tyre B60B 11/04; multiple rims on a single wheel body B60B 11/06; of multi-part type B60B 25/00; metal tyres B60C) characterised by transverse section {with inwardly directed flanges, i.e. the tyre-seat being reversed} {the transverse section being non-symmetrical} {the transverse section being hollow} {the shape of rim well} with substantially radial flanges (with railengaging flanges B60B 17/00) {(B60B 21/021 takes precedence)} characterised by means for attaching spokes {, i.e. spoke seats} {for bicycles} {characterised by shape of spoke mounting holes, e.g. elliptical or triangular} {the spoke mounting means being located on a flange oriented radially and formed on the radially inner side of the rim well} {the spoke seat comprising sealing means, e.g. for tubeless racing bike tyres}
17/00 17/0003 17/0006 17/001 17/0013 17/0017 17/002 17/0024 17/0027 17/0031 17/0034 17/0037 17/0044 17/0048 17/0048 17/0051	Wheels characterised by rail-engaging elements ({wheel-axle combinations B60B 37/00;} of model railways A63H 19/22) · {Wheel bodies characterised by use of non-metallic material (B60B 17/0034 takes precedence)} · {Construction of wheel bodies, e.g. disc wheels (B60B 17/0003 takes precedence)} · . {Spoked wheels; Spokes thereof} · . {formed by two or more axially spaced discs} · . {with insonorisation means} · . {with counter-balance} · . {with noise reducing means (B60B 17/0017 takes precedence)} · {Resilient wheels, e.g. resilient hubs (B60B 17/02 takes precedence)} · . {using springs} · . {of circular or elliptical cross section} · {of substantially rectangular cross section} · {single element arranged in V-form} · {pair of elements arranged in V-form} · . {using fluid} · {with non-elastic tyres (e.g. of particular profile or composition)} · . {characterised by their fixing to wheel bodies}	21/02 21/021 21/023 21/025 21/026 21/028 21/04 21/06 21/062 21/064 21/066 21/068 21/068	B60B 9/00; capable of carrying more than one tyre B60B 11/04; multiple rims on a single wheel body B60B 11/06; of multi-part type B60B 25/00; metal tyres B60C) characterised by transverse section five the transverse section being non-symmetrical fithe transverse section being non-symmetrical fithe transverse section being hollow fithe shape of rim well with substantially radial flanges (with railengaging flanges B60B 17/00) {(B60B 21/021 takes precedence)} characterised by means for attaching spokes {, i.e. spoke seats} for bicycles for bicycles fethe spoke mounting means being located on a flange oriented radially and formed on the radially inner side of the rim well} fthe spoke seat comprising sealing means, e.g. for tubeless racing bike tyres} characterised by having braking surfaces
17/00 17/0003 17/0006 17/001 17/0013 17/0017 17/002 17/0024 17/0027 17/0031 17/0034 17/0037 17/0041 17/0048 17/0048 17/0055	Wheels characterised by rail-engaging elements ({wheel-axle combinations B60B 37/00;} of model railways A63H 19/22) . {Wheel bodies characterised by use of non-metallic material (B60B 17/0034 takes precedence)} . {Construction of wheel bodies, e.g. disc wheels (B60B 17/0003 takes precedence)} . {Spoked wheels; Spokes thereof} . {formed by two or more axially spaced discs} {with insonorisation means} . {with counter-balance} . {with noise reducing means (B60B 17/0017 takes precedence)} . {Resilient wheels, e.g. resilient hubs (B60B 17/02 takes precedence)} . {using springs} {of rubber or other non-metallic material} {of circular or elliptical cross section} {single element arranged in V-form} {pair of elements arranged in V-form} {using fluid} . {with non-elastic tyres (e.g. of particular profile or composition)}	21/02 21/021 21/023 21/025 21/026 21/028 21/04 21/06 21/062 21/064 21/066 21/068 21/08 21/10	B60B 9/00; capable of carrying more than one tyre B60B 11/04; multiple rims on a single wheel body B60B 11/06; of multi-part type B60B 25/00; metal tyres B60C) characterised by transverse section five the transverse section being non-symmetrical fithe transverse section being non-symmetrical fithe transverse section being hollow fithe shape of rim well with substantially radial flanges (with railengaging flanges B60B 17/00) {(B60B 21/021 takes precedence)} characterised by means for attaching spokes {, i.e. spoke seats} for bicycles for bicycles for bicycles fer adially and formed on the radially inner side of the rim well} the spoke seat comprising sealing means, e.g. for tubeless racing bike tyres} characterised by the form of tyre-seat or flange, e.g. corrugated (B60B 21/02 takes precedence)
17/00 17/0003 17/0006 17/001 17/0013 17/0017 17/002 17/0024 17/0027 17/0031 17/0034 17/0037 17/0041 17/0044 17/0048 17/0055 17/0058	Wheels characterised by rail-engaging elements ({wheel-axle combinations B60B 37/00;} of model railways A63H 19/22) · {Wheel bodies characterised by use of non-metallic material (B60B 17/0034 takes precedence)} · {Construction of wheel bodies, e.g. disc wheels (B60B 17/0003 takes precedence)} · {Spoked wheels; Spokes thereof} · {formed by two or more axially spaced discs} · · {with insonorisation means} · {with counter-balance} · {with noise reducing means (B60B 17/0017 takes precedence)} · {Resilient wheels, e.g. resilient hubs (B60B 17/02 takes precedence)} · · {using springs} · · {of circular or elliptical cross section} · · · {of substantially rectangular cross section} · · · {single element arranged in V-form} · · · {pair of elements arranged in V-form} · · · {using fluid} · {with non-elastic tyres (e.g. of particular profile or composition)} · {characterised by their fixing to wheel bodies} · {having teeth or protrusions on the circumference}	21/02 21/021 21/023 21/025 21/026 21/028 21/04 21/06 21/062 21/064 21/066 21/068 21/068	B60B 9/00; capable of carrying more than one tyre B60B 11/04; multiple rims on a single wheel body B60B 11/06; of multi-part type B60B 25/00; metal tyres B60C) characterised by transverse section (with inwardly directed flanges, i.e. the tyre-seat being reversed} (the transverse section being non-symmetrical} (the shape of rim well} (the shape of hump} (with substantially radial flanges (with rail- engaging flanges B60B 17/00) {(B60B 21/021 takes precedence)} characterised by means for attaching spokes {, i.e. spoke seats} (for bicycles} (for bicycles} (fhe spoke mounting means being located on a flange oriented radially and formed on the radially inner side of the rim well} (the spoke seat comprising sealing means, e.g. for tubeless racing bike tyres} characterised by the form of tyre-seat or flange, e.g. corrugated (B60B 21/02 takes precedence) (the shape of bead seats}
17/00 17/0003 17/0006 17/0013 17/0017 17/002 17/0024 17/0027 17/0031 17/0034 17/0037 17/0041 17/0048 17/0055 17/0058 17/0062	Wheels characterised by rail-engaging elements ({wheel-axle combinations B60B 37/00;} of model railways A63H 19/22) · {Wheel bodies characterised by use of non-metallic material (B60B 17/0034 takes precedence)} · {Construction of wheel bodies, e.g. disc wheels (B60B 17/0003 takes precedence)} · . {Spoked wheels; Spokes thereof} · . {formed by two or more axially spaced discs} · . {with insonorisation means} · . {with counter-balance} · . {with noise reducing means (B60B 17/0017 takes precedence)} · {Resilient wheels, e.g. resilient hubs (B60B 17/02 takes precedence)} · . {using springs} · . {of rubber or other non-metallic material} · {of substantially rectangular cross section} · {single element arranged in V-form} · {pair of elements arranged in V-form} · {pair of elements arranged in V-form} · {with non-elastic tyres (e.g. of particular profile or composition)} · . {characterised by their fixing to wheel bodies} · {having teeth or protrusions on the circumference of the wheel}	21/02 21/021 21/023 21/025 21/026 21/028 21/04 21/06 21/062 21/064 21/066 21/068 21/08 21/10	B60B 9/00; capable of carrying more than one tyre B60B 11/04; multiple rims on a single wheel body B60B 11/06; of multi-part type B60B 25/00; metal tyres B60C) characterised by transverse section five the transverse section being non-symmetrical fithe transverse section being non-symmetrical fithe transverse section being hollow fithe shape of rim well with substantially radial flanges (with railengaging flanges B60B 17/00) {(B60B 21/021 takes precedence)} characterised by means for attaching spokes {, i.e. spoke seats} for bicycles for bicycles for bicycles fer adially and formed on the radially inner side of the rim well} the spoke seat comprising sealing means, e.g. for tubeless racing bike tyres} characterised by the form of tyre-seat or flange, e.g. corrugated (B60B 21/02 takes precedence)

Rims; Hubs B60B

21/108	• • {the surface of bead seats}	27/0052	• • {the element being a brake disc}
21/12	Appurtenances, e.g. lining bands	27/0057	• • {the element being a brake drum}
21/125	• • {Bead clamping elements}	27/0063	• • {the element being a brake caliper mount}
23/00	Attaching rim to wheel body (attaching spokes to	27/0068	• {the element being a sensor}
	rim <u>B60B 1/04</u> , <u>B60B 1/14</u> ; attaching rims resiliently	27/0073	• {characterised by sealing means}
	to wheel body <u>B60B 9/00</u> {; devices for fastening or	27/0078	• {characterised by the fixation of bearings}
	securing constructional elements or machine parts	27/0084	• • {caulking to fix inner race}
	together <u>F16B</u> })	27/0089	• • {caulking to fix outer race}
	NOTE	27/0094	 {one or more of the bearing races are formed by the hub}
	Group B60B 22/12 takes precedence over groups	27/02	adapted to be rotatably arranged on axle
	Group <u>B60B 23/12</u> takes precedence over groups <u>B60B 23/02</u> - <u>B60B 23/10</u>	27/023	. {specially adapted for bicycles}
	<u>B00B 25/02</u> <u>B00B 25/10</u>	27/023	. {specially adapted for bicycles} {comprising quick release devices}
23/02	 by split or other expansible ring devices 	27/04	housing driving means, e.g. sprockets
23/04	 by bayonet joint, screw-thread, or like attachments 	27/042	• Flooding driving means, e.g. sprockets• • {comprising a rotational dampers}
23/06	 by screws, bolts, pins, or clips 	27/045	{comprising a rotational dampers} {comprising a spoke protectors}
23/08	arranged radially	27/047	{comprising a spoke proceeds} {comprising a freewheel mechanisms}
23/10	arranged axially	27/06	 adapted to be fixed on axle
23/12	 by devices arranged to permit variation of axial 	27/065	• • {characterised by the fixation of the hub to the
	position of rim relative to wheel body for track	277003	axle}
	width adjustment)
25/00	Rims built up of several main parts {Locking		or tools for mounting wheels or parts thereof (hand
	means for the rim parts} (tools for assembling	tools in gener	ral <u>B25</u> ; tools for mounting tyres <u>B60C 25/00</u>)
	divided rims <u>B60B 31/04</u>)	29/00	Apparatus or tools for mounting or dismounting
25/002	• {Rims split in circumferential direction}		wheels {(mounting of wheels at assembly lines
25/004	• • {one rim part comprising the wheel disc}		B62D 65/12)}
25/006	• • {Rims split symmetrically}	29/001	• {comprising lifting or aligning means (<u>B60B 29/002</u>
25/008	• . {comprising spacer means}		takes precedence)}
25/02	• Segmented rims, e.g. with segments arranged	29/002	• {provided with a dolly}
	in sections; Connecting equipment, e.g. hinges;	29/003	• {Wrenches, e.g. of the ratchet type (<u>B60B 29/001</u>
25/04	Insertable flange rings therefor Rims with dismountable flange rings, seat rings, or		takes precedence; wrenches <u>per se</u> <u>B25B 13/00</u>)}
23/04	lock rings	29/004	• • {for dual wheels}
25/045	• {on both sides}	29/005	• • {hand-driven operating with multiplicated forces
25/06	 Split flange rings, e.g. transversely split; 		(<u>B60B 29/004</u> takes precedence; hand-driven gear-operated wrenches <u>per se B25B 17/00</u> , with
23/00	Connecting equipment for overlapping the slot		torque amplification <u>B25B 17/00</u>)
25/08	Continuous flange rings; Arrangement of recesses	29/006	• • {with electric or pneumatic drive (power-driven
	enabling the flange rings to be slipped over the	25,000	nut setting or loosening tool per se <u>B25B 21/00</u>)}
	rim body	29/007	• • {Supports for wrenches (<u>B60B 29/005</u> ,
25/10	• • Seat rings for the tyre bead part, e.g. split		B60B 29/006 take precedence)}
25/12	with integral flange part	29/008	• {Wheel pullers; tools for axial movement of
25/14	. Locking means for flange rings or seat rings		wheels (adjustable axle units for varying track
25/16	Arrangement of bayonet catches		<u>B60B 35/10</u>)}
25/18	Arrangement of split rings	30/00	Means for holding wheels or parts thereof (spare
25/20	Arrangement of screws, bolts, or shouldered	20,00	wheel stowing, holding or mounting arrangements on
25/22	pins		vehicles <u>B62D 43/00</u>)
25/22	• Other apurtenances, e.g. for sealing the component	30/02	• engaging the tyre, e.g. the tyre being mounted on
	parts enabling the use of tubeless tyres		the wheel rim
27/00	Hubs (non-metallic <u>B60B 5/00</u> ; of high resiliency	30/04	the tyre not being mounted on a rim, i.e. holders
	<u>B60B 9/00</u>)		or supports for tyres alone
27/0005	• {with ball bearings}	30/06	• engaging the wheel body, e.g. the rim
27/001	• {with roller-bearings}	30/08	the central part of the wheel body
27/0015	• {for driven wheels}	30/10	 characterised by being provided on a dolly
27/0021	 {characterised by torque transmission means from drive axle} 	31/00	Apparatus or tools for assembling or
27/0026	• • • {of the radial type, e.g. splined key}	21/005	disassembling wheels
27/0031	• • { of the axial type, e.g. front teeth }	31/005	• {especially for spoked wheels}
27/0036	• • {comprising homokinetic joints}	31/02	 for tightening or straightening wire spokes <u>in situ</u>; for extracting spokes from wheels
27/0042	• • • {characterised by the fixation of the	31/04	 for assembling divided rims
	homokinetic joint to the hub}	31/04	 for removing or attaching cover discs, hub caps, or
27/0047	• {characterised by functional integration of other	21,30	the like
	elements}		

33/00	Castors in general; {Anti-clogging castors} (castors for large containers <u>B65D 90/18</u>)	35/001	• {Axles of the portal type, i.e. axles designed for higher ground clearance}
33/0002	• {assembling to the object, e.g. furniture}	35/002	• {Axles of the low floor type, e.g. for low-floor city
33/0005	• • {characterised by mounting method}		busses}
33/0007	• • · {by screwing}	35/003	• {Steerable axles}
33/001	• • • {by snapping, clicking or latching in}	35/004	 {Mounting arrangements for axles}
33/0013	• • {by straps, bands or similar}	35/005	• • {with adaptations at chassis structure}
33/0015	• • {characterised by adaptations made to castor}	35/006	• • { with mounting plates or consoles fitted to axles}
33/0018	• • {in the form of a flat mounting plate}	35/007	• • • {for mounting suspension elements to axles}
33/0021	• • {in the form of a mounting pin}	35/008	• • • { for mounting air suspension elements to
33/0023	• • • {in the form of specific adaptations to the form		axles}
	of the object}	35/009	• {adapted for tiltable wheels}
33/0026	• • {characterised by adaptations made to the object}	35/02	• Dead axles, i.e. not transmitting torque
33/0028	• {Construction of wheels; methods of assembling on	35/025	{the wheels being removable}
	axle}	35/04	straight
33/0036	• {characterised by type of wheels}	35/06	cranked
33/0039	• • {Single wheels}	35/08	• of closed hollow section
33/0042	• • {Double or twin wheels}	35/10	• adjustable for varying track {(tools for axial
33/0044	• • {Roller type wheels, i.e. extra wide wheels}	27/1000	movement of wheels on axles <u>B60B 29/008</u>)}
33/0047	• {characterised by details of the rolling axle}	35/1009	• • {operated manually}
33/0049	• • {the rolling axle being horizontal}	35/1018	{comprising a locking pin}
33/0052	• • {the rolling axle being inclined}	35/1027	{comprising a clamping mechanism}
33/0055	• • {the rolling axle intersects swivel axis}	35/1036	• • { operated with power assistance }
33/0057	• • {the rolling axle being offset from swivel axis}	35/1045	· · · · {electrically}
33/006	• {characterised by details of the swivel mechanism}	35/1054	{hydraulically}
33/0063	• • {no swivelling action, i.e. no real caster}	35/1063	• • • { automatically dependent on operational state of the vehicle }
33/0065	• • {characterised by details of the swivel axis}	35/1072	• {by transversally movable elements}
33/0068	• • • {the swivel axis being vertical}	35/1072	{the element is a wheel}
33/0071	• • • {the swivel axis being inclined}	35/1001	{the element is an axle part}
33/0073	 { the swivel axis being symmetrical to wheel or wheels} 	35/10	Torque-transmitting axles (independent suspension
33/0076	• • • {the swivel axis being offset laterally from		aspects B60G)
33,0070	wheel center plane}	35/121	• • {Power-transmission from drive shaft to hub}
33/0078	• {characterised by details of the wheel braking	35/122	• • • {using gearings}
	mechanism}	35/124	• • • { of the helical or worm type }
33/0081	• • {acting on tire tread}	35/125	• • • { of the planetary type}
33/0084	• • {acting on axle end}	35/127	• • • {using universal joints}
33/0086	• • {acting on rim or side portion of tyre}	35/128	• • • {of the homokinetic or constant velocity
33/0089	• • {acting on the floor}		type}
33/0092	• • {actuated remotely, e.g. by cable or electrically}	35/14	composite or split, e.g. half- axles; Couplings
33/0094	• • {actuated automatically}		between axle parts or sections
33/0097	• • {acting permanently, e.g. for increased security	35/16	Axle housings
	on low friction surfaces}	35/163	{characterised by specific shape of the housing,
33/02	• with disengageable swivel action {, i.e. comprising		e.g. adaptations to give space for other vehicle
22/021	a swivel locking mechanism}	35/166	elements like chassis or exhaust system} {characterised by reinforcements, e.g.
33/021	• {combined with braking of castor wheel}	33/100	reinforcement ribs}
33/023	• {by using friction}	35/18	Arrangement of bearings
33/025	• {by using form-fit, e.g. front teeth}		
33/026	 {being actuated remotely, e.g. by cable or electrically} 	37/00	Wheel-axle combinations, e.g. wheel sets (units
33/028	• {being actuated automatically}		comprising multiple wheels arranged side-by-side
33/028	adjustable {, e.g. in height; linearly shifting castors}	27/02	B60B 11/00; rail vehicle axle-boxes B61F)
33/045	 adjustable {, e.g. in height; linearly shifting castors} {mounted resiliently, by means of dampers} 	37/02	the wheels being integral with solid axles
33/043	mounted restrictely mounted retractably	37/04	the wheels being rigidly attached to solid axles
33/063	• • • • • • • • • • • • • • • • •	37/06	 the wheels being integral with, or rigidly attached to, hollow axles
33/065	• • {by the armovement parametro swiver axis} • • • {by use of a hinge and lever mechanism to	37/08	to, nonow axiesthe hollow axles being rotatable around fixed
33/000	swing wheel upwards relative to wheel mount}	31/00	axles
33/08	• Ball castors {(B60B 33/0028 takes precedence)}	37/10	 the wheels being individually rotatable around the
35/00	Axle units; Parts thereof (steerable vehicle stub		axles
33/00	axles B62D) {; Arrangements for lubrication of	37/12	. Axles with a fixed ground wheel and a loose wheel
	axles}		

Increasing wheel adhesion (wheels, wheel attachments or tyre attachments of the constructions B60E, road surface conditioning to prevent shipperiness E01C, and surface conditioning to prevent shipperiness E01C, and surface to the constructions B60E of the constructions B60E of the constructions B60E, road surface conditioning to prevent shipperiness E01C, and surface to the constructions B60E of the constructions actuated by centrifugal force (non-skid chains actuated by a control system of the ottach actuation of the rotating chain wheel) 39/022
increasing traction B60B 1500, B60C; tyre constructions B60C: road surface conditioning to prevent slipperiness E01C) 39/003
constructions B60C; road surface conditioning to prevent slipperiness E0IC) 39/003
prevent slipperiness EOIC (Vehicle mounted non-skid chains actuated by centrifugal force (non-skid devices temporarily attachable to resilient tyres B60C 27/00) 39/006 (characterised by a control system for the actuation of the rotating chain wheel) 39/02 (characterised by a control system for the actuation of the rotating chain wheel) 39/02 (characterised by a control system for the actuation of the rotating chain wheel) 39/02 (pleatils of the dispensing device) 39/022 (pleated to reservoirs) 39/023 (prelated to reservoirs) 39/024 (prelated to reconditioning of the dispensing material) 39/025 (prelated to preconditioning of the dispensing materials) 39/026 (prelated to the control system) 39/027 (prelated to the control system) 39/028 (prelated to the control system) 39/029 (prelated to the control system) 39/029 (prelated to the control system) 39/020 (prelated to the control system) 39/020 (prelated to the control system) 39/027 (prelated to preconditioning of the dispensing materials) 39/028 (prelated to the control system) 39/029 (prelated to the control system) 39/029 (prelated to preconditioning of the dispensing materials) 39/020 (prelated to preconditioning of the dispensing materials) 39/029 (prelated to preconditioning of the dispensing materials) 39/029 (prelated to preconditioning of the dispensing materials) 39/020 (prelated to preconditioning of the dispensing in gas form) 2310/303 (prelated to preconditioning of the dispensing materials) 3310/303 (prelated to preconditioning of the dispensing materials) 3310/303 (prelated to preconditioning of the dispensing materials) 3310/302 (prelated to preconditioning of the dispensing materials) 3310/303 (prelated to preconditioning of the dispensing wealting of the dispensing being effected by mechanical means 39/028 (prelated to preconditioning of the dispensing engage free dispensing engage free dispensioning materials) 3310/3022 (prelated to preconditioning of the dispensing engage free dispe
39/003
centrifugal force (non-skid devices temporarily attachable to resilient tyres B60C 27/00) 39/006
attachable to resilient tyres B60C 27/00) 39/006
39/006
actuation of the rotating chain wheel} 39/02
39/02 Vehicle fittings for scattering or dispensing material in front of its wheels 39/021 . (Details of the dispensing device) 2310/232 by milling 39/022 {related to reservoirs} 2310/238 by thermal spraying of molten mate 2310/234 by warving or knitting of fibers 2310/241 by weaving or knitting of fibers 2310/241 by weaving or knitting of fibers 2310/242 by laminating, e.g. fabrication of sar 2310/302 by amountaing, e.g. fabrication of sar 2310/302 by autogen welding 2310/302 by autogen welding 2310/302 by autogen welding 2310/302 by autogen welding 2310/302 by are welding, plug welding 2310/3023 by are welding, e.g. inert gas are valued 2310/3025 by thermal welding, e.g. friction, ultrasonic welding 2310/3025 by thermal welding, e.g. friction, ultrasonic welding 2310/3028 by magnetic pulse welding 2310/3028 by stare welding 2310/3028 by stare welding 2310/3028 by stare welding 2310/3028 by magnetic pulse welding 2310/3028 by stare welding 2310/3028 by screwing 2310/3028 by camping or wedging, e.g. by clamping or seaming, e.g. by fole rim 2310/311 by riveting 2310/311 by prosch-riveting 2310/314 by deformation 2310/314 by deformation 2310/314 by deformation 2310/315 by andhesive bonding, e.g. glueing 2310/322
in front of its wheels 39/021 . {Details of the dispensing device} 39/022 . {related to reservoirs} 39/023 . {related to reservoirs} 39/024 . {related to metering valves} 39/024 . {related to preconditioning of the dispensing materials} 39/025 . {related to the control system} 39/026 . {the material being in gas form} 39/027 . {the gas being heated on purpose} 39/028 . {the gas being exhaust gas} 39/04 . the material being granular, e.g. sand (combined control of sanding apparatus and brakes of rail vehicles B61H) 39/06 . the dispensing being effected by fluid means 39/08 . the dispensing being effected by fluid means 39/08 . (dispensing being effected by fluid means 39/08 . (dispensing being effected by liquid} 39/10 . the material being sheet-like or web-like 2200/00 Type of product being used or applied (kind of vehicle product being used or applied B60Y 2200/00) 2200/02 . Furniture or medical appliances 2200/22 . Office chairs 2200/224 . Arm chairs 2310/321 . by grinding 2310/323 . by weaking or knitting of fibers 2310/242 . by laminating, e.g. fabrication of sanding apparatus and brakes of male validing 2310/302 . by welding 2310/302 . by welding 2310/302 . by spot welding, e.g. inert gas are validing validing and validing apparatus and brakes of rail vehicles B61H) 2310/3025 . by thermal spraying of molten materials of mother validing and validing and validing apparatus and brakes of rail vehicles B61H) 2310/3026 . by veleting validing and vehicles B61H . 2310/3027 . by electron beam welding 2310/3028 . by soldering 2310/3027 . by soldering 2310/302 . by soldering 2310/303 . by soldering 2310/303 . by soldering 2310/304 . by clamping or wedging, e.g. by clamping or seaming, e.g. by foldering 2310/311 . by riveting 2310/312 . by punch-riveting 2310/314 . by deformation 2310/314 . by calk
39/022 {related to reservoirs} 39/023 {related to metering valves} 39/024 {related to metering valves} 39/025 {related to preconditioning of the dispensing materials} 39/025 {related to the control system} 39/026 {the material being in gas form} 39/027 {the gas being heated on purpose} 39/028 {the gas being heated on purpose} 39/029 {the gas being exhaust gas} 39/04 the material being granular, e.g. sand (combined control of sanding apparatus and brakes of rail vehicles B61H) 39/06 the dispensing being effected by mechanical means 39/08 the dispensing being effected by fluid means 39/08 {dispensing being effected by liquid} 39/08 {dispensing being effected by gas} 39/08 {dispensing being effected by gas} 39/09 the dispensing being effected by liquid} 39/08 {dispensing being effected by liquid} 39/08 {dispensing being effected by gas} 39/10 the dispensing being effected by gas} 39/10 the material being sheet-like or web-like 2200/00 Type of product being used or applied (kind of vehicle prod
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39/024 {related to metering valves} 39/024 {related to preconditioning of the dispensing materials} 39/025 {related to the control system} 39/026 {trelated to the control system} 39/027 {the material being in gas form} 39/028 {the gas being heated on purpose} 39/029 {the gas being heated on purpose} 39/04 the material being granular, e.g. sand (combined control of sanding apparatus and brakes of rail vehicles B61H) 39/06 the dispensing being effected by mechanical means 39/08 the dispensing being effected by fluid means 39/08 {dispensing being effected by liquid} 39/08 {dispensing being effected by gas} 39/08 the dispensing being effected by gas} 39/10 the dispensing being effected by gas} 39/10 the material being sheet-like or web-like 2200/20 Type of product being used or applied (kind of vehicle product being used or applied (kind o
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materials} 39/025 {related to the control system} 39/026 {the material being in gas form} 39/027 {the gas being heated on purpose} 39/028 {the gas being exhaust gas} 39/04 the material being granular, e.g. sand (combined control of sanding apparatus and brakes of rail vehicles B61H) 39/06 the dispensing being effected by mechanical means 39/08 the dispensing being effected by fluid means 39/08 {dispensing being effected by liquid} 39/10 the dispensing being controlled electrically or electromagnetically 39/12 the material being sheet-like or web-like 2200/00 Type of product being used or applied (kind of vehicle product being used or applied B60Y 2200/00) 2200/22 Chairs 2200/22 Chairs 2200/22 Office chairs 2200/224 Arm chairs 2310/332 by welding 2310/3022 by thermal welding, e.g. friction, ultrasonic welding 2310/3025 by leactron beam welding 2310/3028 by soldering 2310/3028 by soldering 2310/303 . by soldering 2310/303 . by screwing 2310/305 . by screwing 2310/306 . by clamping or wedging, e.g. by claas joining means 2310/311 by riveting 2310/311 by riveting 2310/312 by punch-riveting 2310/312 . by hemming or seaming, e.g. by fole rim 2310/314 . by deformation 2310/314 . by overmolding
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39/027 . {the gas being heated on purpose} 39/028 . {the gas being heated on purpose} 39/029 . {the material being granular, e.g. sand (combined control of sanding apparatus and brakes of rail vehicles B61H) 39/06 . the dispensing being effected by mechanical means 39/08 . the dispensing being effected by fluid means 39/08 . the dispensing being effected by fluid means 39/08 . {dispensing being effected by gas} 39/08 . the dispensing being effected by gas} 39/10 . the dispensing being controlled electrically or electromagnetically 39/12 . the material being sheet-like or web-like 2200/00 Type of product being used or applied (kind of vehicle product being used or applied (kind of vehicle product being used or applied B60Y 2200/00) 2200/20 . Furniture or medical appliances 2200/22 . Chairs 2310/314 . by caulking 2310/315 . by adhesive bonding, e.g. glueing 2310/3025 . by strewing ultrasonic welding 2310/3026 . by learn welding 2310/3030 . by sorewing 2310/305 . by screwing 2310/305 . by clamping or wedging, e.g. by cla as joining means 2310/307 . by removably mountable securing e circlips 2310/311 . by riveting 2310/312 . by punch-riveting 2310/314 . by deformation 2310/314 . by caulking 2300/224 . Arm chairs 2310/318 . by adhesive bonding, e.g. glueing 2310/321 . by overmolding
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39/028 {the gas being exhaust gas} 39/04 the material being granular, e.g. sand (combined control of sanding apparatus and brakes of rail vehicles B61H) 39/06 the dispensing being effected by mechanical means 39/08 {dispensing being effected by fluid means 39/08 {dispensing being effected by liquid} 39/10 the dispensing being effected by gas} 39/11 the material being sheet-like or web-like 2200/00 Type of product being used or applied (kind of vehicle product being used or applied B60Y 2200/00) 2200/22 Chairs 2310/302 by arc welding, e.g. inert gas are verification, ultrasonic welding 2310/302 by laser welding 2310/302 by laser welding 2310/302 by soldering 2310/303 by soldering 2310/303 by screwing 2310/305 by screwing 2310/306 by clamping or wedging, e.g. by clamping or seaming, e.g. by fole rim 2310/311 . by priveting 2310/312 . by hemming or seaming, e.g. by fole rim 2310/314 . by deformation 2310/314 . by caulking 2310/315 . by press-fitting, shrink-fitting 2310/316 . by press-fitting, shrink-fitting 2310/318 . by adhesive bonding, e.g. glueing 2310/302 . by overmolding
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2200/22 . Chairs 2310/316 . by press-fitting, shrink-fitting 2200/222 . Office chairs 2310/318 . by adhesive bonding, e.g. glueing 2200/224 . Arm chairs 2310/321 . by overmolding
2200/222 Office chairs 2310/318 by adhesive bonding, e.g. glueing 2200/224 Arm chairs 2310/321 . by overmolding
2200/224 Arm chairs 2310/321 by overmolding
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2200/242 Hospital beds 2310/329 by splicing, e.g. of ropes
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2510/50 Infilmer described
2310/22 • • • • • • • • • • • • • • • • • •
2310/34 • • Hattering
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2010/00 TO CO CUITING, VALUE AND
2510/00 • Surface treatment, After treatment
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2200/49 Domestic appliances, e.g. vacuum cleaners 2310/6162 Conductive films
2310/00 Manufacturing methods 2310/618 . Coating with foils
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2310/00 Manufacturing methods 2310/20 Shaping 2310/202 Shaping 2310/202 Shaping 2310/204 Shaping 2310/204 Shaping 2310/204 Shaping 2310/204 Shaping 2310/204 Shaping 2310/622 Shot-peening 2310/642 Shot-peening
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2310/00 Manufacturing methods 2310/618 . Coating with foils 2310/20 . Shaping 2310/621 . Electro-chemical processes 2310/202 . by casting 2310/622 . Shot-peening 2310/204 . by moulding, e.g. injection moulding, i.e. casting of plastics material 2310/644 . Effect of treatments 2310/206 . by stamping 2310/644 . Polished 2310/208 . by forging 2310/646 . Engraved 2310/2082 . by swaging 2310/648 . Structured
2310/00 Manufacturing methods 2310/618 . Coating with foils 2310/20 . Shaping 2310/621 . Electro-chemical processes 2310/202 . by casting 2310/622 . Shot-peening 2310/204 . by moulding, e.g. injection moulding, i.e. casting of plastics material 2310/64 . Effect of treatments 2310/206 . by stamping 2310/644 . Polished 2310/208 . by forging 2310/646 . Engraved

2360/147 . . Castings

2310/654	Anti-corrosive	2360/148	Sinterings
2310/656	Decorative	2360/149	Metal foams
2310/658	For advertising	2360/30	Synthetic materials
2310/661	• • • for protection, e.g. against scratches or stone	2360/32	Plastic compositions
2010,001	chips	2360/322	Comprising polypropylene
2310/80	Filament winding	2360/324	Comprising polyurethane
	-	2360/33	Synthetic foams
2320/00	Manufacturing or maintenance operations	2360/34	Reinforced plastics
2320/10	Assembling; disassembling	2360/341	with fibres
2320/12	Assembly devices for spoked wheels	2360/3412	Glass fibres
2320/122	for spoke tensioning	2360/3414	Aramide fibres
2320/124	for trueing of spoked wheels	2360/3416	Carbone fibres
2320/126	for restoring form or removing local distortions	2360/3418	Aramid fibres
	of wheel rims in unassembled state	2360/342	With strands
2320/14	Assembly devices for divided rims	2360/3422	consisting of fibres oriented substantially
2320/16	Devices for attaching or removing cover discs,	2300/3422	parallel
	hub caps or other ornamental rings or elements	2360/3424	consisting of braided fibres
2320/30	• Balancing	2360/344	With woven material
2320/50	. Securing	2360/3442	characterised by material mixes
2320/52	to prevent loss	2360/3444	characterised by weaving patterns
2320/522	by locking washer	2360/346	Material impregnated with resin before being
2320/524	by securing plate	2300/310	put into form, i.e. prepregs
2340/00	Wheel transporting, Mounting of wheels	2360/3462	comprising strands
2340/10	• Operation mode	2360/3464	comprising woven material
2340/12	Operated manually	2360/348	Resins
2340/14	Power driven	2360/36	Composite materials
2340/16	Included in assembly line	2360/362	Compounded sheets
2340/18	Automated process	2360/364	comprising honeycomb structures
2340/30	Wheel transporting or handling devices	2360/366	comprising foams, e.g. synthetic or metal
2340/32	for gripping the wheel		foams
2340/34	• • for positioning the wheel to hub or boltholes	2360/368	Coproduced material combinations, e.g. By
2340/36	the devices being provided on a dolly		over-molding, co-extrusion, co-curing or
2340/50	Wheel mounting or removal devices		vulcanizing
2340/52	Auxiliary tools, e.g. For alignment	2360/50	. Rubbers
2340/70	Lifting jacks	2360/70	. Ceramics
•• • • • • • •		2360/90	. Wood
2360/00	Materials; Physical forms thereof	2360/92	. Leather
2360/10	Metallic materials	2360/94	Cardboard or papers
2360/102	Steel	2380/00	Bearings
2360/104	Aluminum	2380/00	. Type
2360/106	Magnesia	2380/10	
2360/108	Titanium	2380/12	·- · · ·
2360/109	. Bronze	2380/14	Roller bearings Needle bearings
2360/14	Physical forms of metallic parts	2380/18	Plain or sleeve bearings
2360/141	Sheet-metals	2380/18	Linear bearings
2360/143	Bars, i.e. being solid	2380/20	Magnetic bearings
2360/1432	of circular cross section	2380/22	Cage
2360/1434	of polygonal cross section, e.g. triangular or	2380/30	Without cage
2260/1426	rectangular	2380/32	Modularity
2360/1436	of elliptical cross section	2380/40	Single-piece
2360/144	Tubes, i.e. being hollow		
2360/1442	of circular cross section	2380/44 2380/50	Multi-piece Load bearing capacity
2360/1444	of rectangular cross section	2380/30	Rolling elements
2360/1446	of elliptical cross section	2380/60	Specific number
2360/1448	of irregular cross-section		-
2360/145	Profiles, i.e. being solid and having irregular eross section	2380/64	Specific shape
2360/1/52	cross-section	2380/70	Arrangements Single track
2360/1452	L-profiles T or H-Profiles	2380/71	Single track Double track
2260/1454	LOFFI-PTOLIES	2380/73	• • Double Hack
2360/1454		2380/75	Twin or multiple bearings beging identical
2360/1456	X or Y-Profiles	2380/75	Twin or multiple bearings having identical
		2380/75	Twin or multiple bearings having identical diameters

2380/76	Twin or multiple bearings having different
	diameters
2380/77	Diameters of bearings at opposite ends of hub
2380/772	Identical diameters of bearings at opposite ends
	of hub
2380/774	Different diameters of bearings at opposite
	ends of hub
2380/80	Shafts specially adapted to receive bearings
2380/82	Caulked to fix race
2380/90	Casings or housings specially adapted to receive
	bearings
2380/92	Caulked to fix race
2900/00	Purpose of invention
2900/10	Reduction of
2900/111	Weight
2900/112	. Costs
2900/113	. Production or maintenance time
2900/114	Size
2900/115	Complexity
2900/116	Product variety, e.g. by standardisation or use of
2,00,110	adapters
2900/121	. Resisting forces
2900/1212	due to friction
2900/1214	due to inertia
2900/1216	due to air-drag
2900/131	Vibrations
2900/133	Noise
2900/141	Corrosions
2900/20	Avoidance of
2900/211	Soiling
2900/212	Damage
2900/30	. Increase in
2900/311	Rigidity or stiffness
2900/313	Resiliency
2900/321	Lifetime
2900/323	Timespan between services
2900/325	Reliability
2900/331	Safety or security
2900/3312	during regular use
2900/3313	during maintenance
2900/3314	during production or assembly
2900/3315	by avoiding misuse
2900/3316	by theft provention
2900/3318 2900/351	 by theft prevention versatility, e.g. usable for different purposes or
2900/331	versatility, e.g. usable for different purposes or different arrangements
2900/50	Improvement of
2900/50	Sealing
2900/5112	against dust or dirt
2900/5114	against dust of diff against humidity or water
2900/5114	against number of water
2900/5118	against oil-loss
2900/5113	Cooling, e.g. of brakes
2900/521	Tire mounting or removal (devices therefor)
_,	B60B 2340/50)
2900/523	. Tire fixation on rim, e.g. fixing axially or
	circumferentially thereon
2900/531	User-friendliness
2900/541	Servicing
2900/551	Handling of obstacles or difficult terrains
2900/561	Lubrication

2900/571 . Visibility
2900/572 . Visual appearance
2900/70 . Adaptation for
2900/711 . High loads, e.g. by reinforcements
2900/721 . Use under adverse external conditions
2900/731 . Use in cases of damage, failure or emergency
2900/90 . Providing or changing
2900/911 . Eccentricity
2900/921 . Conductivity
2900/931 . Magnetic effects