SECTION B — PERFORMING OPERATIONS; TRANSPORTING

B60 VEHICLES IN GENERAL

B60B VEHICLE WHEELS (making wheels or wheel parts by rolling B21H 1/00, by forging, hammering or pressing B21K 1/28); CASTORS; AXLES FOR WHEELS OR CASTORS; INCREASING WHEEL ADHESION

Note(s)

Attention is drawn to the Note following the title of class B60.

Subclass index

General structure	1/00, 3/00
Characterised by the material	5/00
Ornamental characteristics	
Particular structures: highly- resilient; multiple or multi-tyred; adhesion-increasing; rail-engaging	9/00, 11/00, 15/00, 17/00
Component parts	
spokes; rims	1/00, 21/00, 23/00, 25/00
hubs	
Other wheels	19/00
AXLES; WHEEL-AXLE COMBINATIONS	35/00, 37/00
INCREASING WHEEL ADHESION, OTHERWISE THAN BY WHEEL STRUCTURE	39/00
MOUNTING, HOLDING OR ASSEMBLING WHEELS	29/00, 30/00, 31/00
CASTORS IN GENERAL	33/00

Wheels

- **1/00 Spoked wheels; Spokes thereof** (non-metallic B60B 5/00) **[1, 2, 2006.01]**
- 1/02 Wheels with wire or other tension spokes [1, 2006.01]
- 1/04 • Attaching spokes to rim or hub **[1, 2006.01]**
- Wheels with compression spokes (wheels of high resiliency B60B 9/00) [1, 2006.01]
- 1/08 • formed by casting [1, 2006.01]
- 1/10 • fabricated from sheet metal (B60B 1/12, B60B 3/08 take precedence) **[1, 2006.01]**
- 1/12 • with tubular spokes (B60B 1/08 takes precedence) **[1, 2006.01]**
- 1/14 • Attaching spokes to rim or hub **[1, 2006.01]**
- 3/00 Disc wheels, i.e. wheels with load-supporting disc body (non-metallic B60B 5/00; wheel cover discs B60B 7/00) [1, 2006.01]
- with a single disc body integral with rim [1, 2006.01]
- with a single disc body not integral with rim [1, 2006.01]
- 3/06 formed by casting [1, 2006.01]
- 3/08 with disc body formed by two or more axially-spaced discs [1, 2006.01]
- 3/10 apertured to simulate spoked wheels [1, 2006.01]
- Means of reinforcing disc bodies [1, 2006.01]
- 3/14 Attaching disc body to hub (resiliently B60B 9/00; attaching rim to wheel body B60B 23/00) [1, 2006.01]

- 3/16 • by bolts or the like **[1, 2006.01]**
- 3/18 • by circlips or the like **[1, 2006.01]**
- 5/00 Wheels, spokes, disc bodies, rims, hubs, wholly or predominantly made of non-metallic material (wheel cover discs B60B 7/00; wheels of high resiliency B60B 9/00) [1, 2006.01]
- 5/02 made of synthetic material **[1, 2006.01]**
- 5/04 made of wood **[1, 2006.01]**
- 7/00 Wheel cover discs, rings, or the like, for ornamenting, protecting, or obscuring, wholly or in part, the wheel body, rim, hub, or tyre sidewall [1, 2, 5, 2006.01]
- Rings specially adapted for covering only the wheel rim or the tyre sidewall, e.g. removable tyre sidewall trim rings [5, 2006.01]
- 7/02 made essentially in one part (B60B 7/01 takes precedence) [1, 5, 2006.01]
- built-up of several main parts (B60B 7/01, B60B 7/20 take precedence) [1, 5, 2006.01]
- 7/06 Fastening arrangements therefor (B60B 7/01, B60B 7/16 take precedence) **[1, 5, 2006.01]**
- 7/08 having gripping elements consisting of formations integral with the cover **[5, 2006.01]**
- 7/10 comprising a plurality of spaced spring clips individually mounted on the cover, e.g. riveted, welded or readily releasable [5, 2006.01]

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7/12	 comprising an annular spring or gripping element mounted on the cover (B60B 7/08 takes 	15/24	 Tread bands or rings for fairing lugs when travelling on the road [1, 2006.01]
	precedence) [5, 2006.01]	15/26	Auxiliary wheels or rings with traction-increasing
7/14	• • comprising screw-threaded means [5, 2006.01]		surface attachable to the main wheel
7/16	• Anti-theft devices [5, 2006.01]		body [1, 2006.01]
7/18	• simulating spoked or wire wheel [5, 2006.01]	15/28	Wheel-ballasting weights; Their
7/20	 having an element mounted for rotation 		attachment [1, 2006.01]
	independently of wheel rotation [5, 2006.01]	.=	
	•	17/00	Wheels characterised by rail-engaging elements (of
9/00	Wheels of high resiliency [1, 2006.01]	17/02	model railways A63H 19/22) [1, 2, 2006.01]
9/02	• using springs (wheels comprising resilient spokes	17/02	• with elastic tyres [1, 2006.01]
0.40.4	B60B 9/26) [1, 2006.01]	19/00	Wheels not otherwise provided for or having
9/04	• • in leaf form [1, 2006.01]		characteristics specified in one of the subgroups of
9/06	• • in helical form [1, 2006.01]		this group [1, 2006.01]
9/08	• • in flat coiled form [1, 2006.01]	19/02	 convertible, e.g. from road wheel to rail wheel;
9/10	• • of rubber or the like [1, 2006.01]		Wheels specially designed for alternative use on road
9/12	• • • in the form of sleeves or rings concentric with		and rail [1, 2006.01]
0/14	wheel axis [1, 2006.01]	19/04	 expansible [1, 2006.01]
9/14	 • with means limiting relative lateral movements between hub and remainder of 	19/06	with compartments for fluid, packing, or loading
	wheel [1, 2006.01]		material; Buoyant wheels [1, 2006.01]
9/16	• • • modified to ensure electric	19/08	• with lubricating passages, channels, or
3/10	conductivity [1, 2006.01]	10/10	reservoirs [1, 2006.01]
9/18	 using fluid (within spokes B60B 9/26) [1, 2006.01] 	19/10	• with cooling fins [1, 2006.01]
9/20	 in rings concentric with wheel axis [1, 2006.01] 	19/12	• Roller-type wheels (B60B 19/06 takes
9/22	• • • inflatable [1, 2006.01]	10/14	precedence) [1, 2006.01] • Ball-type wheels (B60B 19/06 takes
9/24	 with pistons and cylinders [1, 2006.01] 	19/14	precedence) [1, 2006.01]
9/26	 comprising resilient spokes [1, 2006.01] 		precedence) [1, 2000.01]
9/28	with telescopic action [1, 2006.01]		
5, 2 5	man terescopic action (2) 200002	Rims; Hu	<u>ıbs</u>
11/00	Units comprising multiple wheels arranged side by	24 (22	Di (DOD 5/00 Cl l l ll
	side; Wheels having more than one rim or capable of	21/00	Rims (non-metallic B60B 5/00; of high resiliency
	carrying more than one tyre [1, 2006.01]		B60B 9/00; capable of carrying more than one tyre B60B 11/04; multiple rims on single wheel body
11/02	Units of separate wheels mounted for independent or		B60B 11/04; multi-part type B60B 25/00; metal tyres
11/04	coupled rotation [1, 2006.01]		B60C) [1, 2006.01]
11/04	 Wheels with a rim capable of carrying more than one tyre [1, 2006.01] 	21/02	 characterised by transverse section [1, 2006.01]
11/06	 Wheels with more than one rim mounted on a single 	21/04	with substantially-radial flanges (with rail-
11/00	wheel body [1, 2006.01]		engaging flanges B60B 17/00) [1, 2006.01]
11/08	Arrangements of balancing mechanisms enabling a	21/06	 characterised by means for attaching
11/00	uniform distribution of load to the tyres [1, 2006.01]		spokes [1, 2006.01]
11/10	Emergency wheels (tyres collapsible into storage or	21/08	 characterised by having braking surfaces [1, 2006.01]
	non-use condition B60C 3/08; tyres characterised by	21/10	 characterised by the form of tyre-seat or flange, e.g.
	means enabling restricted operation in damaged or		corrugated (B60B 21/02 takes
	deflated condition B60C 17/00) [5, 2006.01]		precedence) [1, 2006.01]
45 /00	TOTAL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	21/12	• Accessories, e.g. lining bands [1, 2006.01]
15/00	Wheels or wheel attachments designed for increasing traction (vehicle tyres B60C; non-skid devices	23/00	Attaching rim to wheel body (attaching spokes to rim
	temporarily attachable to resilient tyres or resiliently-	23/00	B60B 1/04, B60B 1/14; attaching rims resiliently to
	tyred wheels B60C 27/00) [1, 2006.01]		wheel body B60B 9/00) [1, 2006.01]
15/02	• Wheels with spade lugs [1, 2006.01]		
15/04	 with resiliently-mounted spade lugs [1, 2006.01] 		Note(s)
15/06	 with pivotally-mounted spade lugs [1, 2006.01] 		Group B60B 23/12 takes precedence over groups
15/08	with spade lugs axially displaced relatively to the		B60B 23/02-B60B 23/06.
157 00	tread surface of the tyre [1, 2006.01]	23/02	• by split or other expansible ring devices [1, 2006.01]
15/10	with radially-adjustable spade lugs; Control	23/04	 by bayonet-joint, screw-thread, or like
	mechanisms therefor [1, 2006.01]		attachments [1, 2006.01]
15/12	• • • involving cams or eccentric hoops [1, 2006.01]	23/06	• by screws, bolts, pins, or clips [1, 2006.01]
15/14	• • involving an axially-displaceable	23/08	 arranged radially [1, 2006.01]
	cone [1, 2006.01]	23/10	 arranged axially [1, 2006.01]
15/16	 involving gearing, e.g. gear pinions acting upon 	23/12	by devices arranged to permit variation of axial
	threaded shafts on the spade lugs [1, 2006.01]		position of rim relative to wheel body for track-
15/18	 Wheels with ground-engaging plate-like 		width adjustment [1, 2006.01]
	shoes [1, 2006.01]	25/00	Rims built-up of several main parts (tools for
15/20	 with resiliently-mounted shoes, e.g. on a spider [1, 2006.01] 	, ~~	assembling divided rims B60B 31/04) [1, 2006.01]

15/22 • • connected by links to the hub **[1, 2006.01]**

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25/02	• Segmented rims, e.g. with segments arranged in	33/02	• with disengageable swivel action [1, 2006.01]
	sections; Connecting equipment, e.g. hinges;	33/04	• adjustable [1, 2006.01]
25 /04	Insertable flange rings therefor [1, 2006.01]	33/06	 mounted retractably [1, 2006.01]
25/04	 Rims with dismountable flange rings, seat rings, or lock rings [1, 2006.01] 	33/08	• Ball castors [1, 2006.01]
25/06	 Split flange rings, e.g. transversely split; 	35/00	Axle units; Parts thereof (resilient suspension of a
	Connecting equipment for overlapping the		rigid axle or axle housing B60G 9/00; steerable vehicle
	slot [1, 2006.01]		stub-axles B62D) [1, 2006.01]
25/08	Continuous flange rings; Arrangement of recesses	35/02	 Dead axles, i.e. not transmitting torque (axle
	enabling the flange ring to be slipped over the rim		housings for torque transmitting elements
25/10	body [1, 2006.01]• Seat rings for the tyre bead part, e.g.	35/04	B60B 35/16) [1, 2006.01] • straight [1, 2006.01]
23/10	split [1, 2006.01]	35/04	• cranked [1, 2006.01]
25/12	• • • with integral flange part [1, 2006.01]	35/00	 of closed hollow section [1, 2006.01]
25/14	Locking means for flange rings or seat	35/10	 adjustable for varying track [1, 2006.01]
	rings [1, 2006.01]	35/12	• Torque-transmitting axles [1, 2006.01]
25/16	• • • Arrangement of bayonet catches [1, 2006.01]	35/14	composite or split, e.g. half-axles; Couplings
25/18	• • • Arrangement of split rings [1, 2006.01]	55/14	between axle parts or sections (B60G 3/24 takes
25/20	 Arrangement of screw, bolts, or shouldered 		precedence) [1, 2006.01]
	pins [1, 2006.01]	35/16	 characterised by the axle housings for the torque
25/22	Other accessories, e.g. for sealing the component		transmitting elements, e.g. for shafts [1, 2006.01]
	parts enabling the use of tubeless tyres [1, 2006.01]	35/18	 characterised by the arrangement of the bearings
27/00	Hubs (non-metallic B60B 5/00; of high resiliency		for the torque transmitting elements in the axle
	B60B 9/00) [1, 2006.01]		housings [1, 2006.01]
27/02	 adapted to be rotatably arranged on axle [1, 2006.01] 	37/00	Wheel-axle combinations, e.g. wheel sets (units
27/04	• • housing driving means, e.g. sprockets [1, 2006.01]		comprising multiple wheels arranged side by side
27/06	 adapted to be fixed on axle [1, 2006.01] 		B60B 11/00; rail-vehicle axle-boxes B61F) [1, 2006.01]
		37/02	the wheels being integral with solid
Annawati	us or tools for mounting, holding or assembling wheels	27/04	axles [1, 2006.01]
Apparau	us or tools for mounting, nothing or assembling wheels	37/04	 the wheels being rigidly attached to solid axles [1, 2006.01]
29/00	Apparatus or tools for mounting or dismounting	37/06	 the wheels being integral with, or rigidly attached to,
	wheels (characterised by the means for holding the		hollow axles [1, 2006.01]
	wheels B60B 30/00) [1, 5, 2006.01]	37/08	 the hollow axles being rotatable around fixed
30/00	Means for holding wheels or parts thereof (spare		axles [1, 2006.01]
	wheel stowing, holding or mounting arrangements on	37/10	the wheels being individually rotatable around the
	vehicles B62D 43/00) [5, 2006.01]	25/42	axles [1, 2006.01]
30/02	 engaging the tyre, e.g. the tyre being mounted on the 	37/12	 Axles with a fixed wheel and a loose wheel [1, 2006.01]
	wheel rim [5, 2006.01]		wheel [1, 2000.01]
30/04	• • the tyre not being mounted on a rim, i.e. holders or	39/00	Increasing wheel adhesion (wheels or wheel
20./06	supports for tyres alone [5, 2006.01]		attachments designed for increasing traction
30/06 30/08	 engaging the wheel body, e.g. the rim [5, 2006.01] the central part of the wheel body [5, 2006.01] 		B60B 15/00; vehicle tyres B60C; non-skid devices
30/00	 characterised by being provided on a 		temporarily attachable to resilient tyres or resiliently- tyred wheels B60C 27/00; road surface conditioning to
50/10	dolly [5, 2006.01]		prevent slipperiness E01C) [1, 2006.01]
	•	39/02	Vehicle fittings for scattering or dispensing material
31/00	Apparatus or tools for assembling or disassembling		in front of its wheels [1, 2006.01]
21 /02	wheels [1, 2006.01]	39/04	 the material being granular, e.g. sand (combined
31/02	 for tightening or straightening wire spokes <u>in situ</u>; for extracting spokes from wheels [1, 2006.01] 		control of sanding apparatus and brakes of rail
31/04	• for assembling divided rims [1, 2006.01]	20 /00	vehicles B61H) [1, 2006.01]
31/04	for removing or attaching cover discs, hub caps, or	39/06	• • • the dispensing being effected by mechanical means [1, 2006.01]
51/00	the like [1, 2, 2006.01]	39/08	• • the dispensing being effected by fluid
	<u>-</u>	55700	means [1, 2006.01]
		39/10	• • • the dispensing being controlled electrically or
33/00	Castors in general (castors for large containers		electromagnetically [1, 2006.01]
55/00	B65D 90/18) [1, 2006.01]	39/12	• • the material being sheet-like or web-
	,		like [1, 2006.01]

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