

1	<b>COMBINED WHEEL AND AXLE MODIFICATION</b>	17	....Bayonet joint
2	.Cushion lateral thrust	18	....Radially acting wedge
2.5	.With pedal crank	19	.....Transversely extending wedge
5.1	<b>WHEEL</b>	20	.....Independently movable
5.21	.Balancing device	21	.....Bolt wedge
5.22	..Self-operating	22	.....Annular wedge
5.23	.With peripheral roller	23	....Removable side ring
5.24	.Having housing for tire inflation means	24	....Removable side lug
5.301	.Skate wheel	25	....Latch
5.7	..With antifriction bearing	26	.....Annular latch
5.302	..Traction increasing	27	.....Expandable ring
5.303	...Shape	28	.....Radially moving bolt
5.304	..Cushion	29	.....Pivoted
5.305	..Mounting on axle or skate	29.2	....Circumferentially divided rim
5.306	..Hub having tire retention means	30	...Transversely divided
5.307	...Tire molded to hub	30.2	....One section both transversely and circumferentially divided
5.308	..Plural diverse materials	31	....Plural sections
5.309	..Hub construction	32	.....Hinged
6.1	.With drive or brake attachment	33	....With end-aligning means
6.2	..Aircraft wheel	34	.....Tool connection
6.3	..And with brake-cooling means	35.1	...Circumferentially divided rim
6.4	...Comprising means to utilize a fluid	35.2	...Rim sections held together by bayonet joint
6.5	..Drive means on wheel	35.3	...Rim sections held together by transversely divided locking ring
6.6	..Wheel supported on brake drum clear of hub	35.51	...Including means to prevent relative rotation between rim and wheel body
6.7	..Brake drum supported on wheel clear of hub	35.52	..Geared mounting mechanism
6.8	..Disc brake	35.53	..Artillery wheel with single- acting retaining means
6.9	..For cycle-type vehicle	35.54	..Artillery wheel bolted to hub
6.91	..Having vibration damper or heat insulator	35.55	...By central nut
7	.Wheelbarrow type	35.56	..Wire-spoke wheel with single- acting mounting means
8	.Having auxiliary bracing	35.57	..Wire-spoke wheel bolted to hub
9.1	.Detachable wheel section	35.58	...By central nut
9.2	..With provision to permit positioning of rim laterally of hub	35.59	..Spoke formations bolted to hub
10.1	..Demountable rim	35.61	..Disc wheel with single-acting retaining means
11.1	...Rim-securing means	35.621	..Disc wheel bolted to hub
11.2	....With lock between rim and wheel body	35.63	...By central nut
11.3	....With spacer between rim and wheel body	35.622	...Multi-part nut
12.1	....Spoke secured	35.623	..Lug nut
12.2	.....Radially movable spoke	35.624	...Lug nut retention means
13.1	....Plural rims	35.625	...Lug nut engaging wheel element
13.2	.....Dual rims	35.626	..Disc reinforcing structure at lug bolt opening
14	....Securing and removing means	35.627	..Centering means
15	....Contractible rim	35.628	..Dual wheel coupling
16	....Expandable wheel body	35.629	..With adaptor

35.631	...Variable bolt patterns accommodating means (e.g., inserts)	37.374	....Lug nut cover
35.632	..Lug bolt opening reinforcement	37.375	....Nut cover retains wheel cover
36.1	.Dual wheels	37.376	...Cover mounting member secured to wheel by lug nuts
36.2	..Relatively rotatable	37.39	..Cover having integral securing teeth
36.3	..With wear-preventing means therebetween	37.41	..Cover securing, wheel spoke engaging means
37.101	.With wheel cover	37.42	..Plastic cover
37.21	..With anti-theft device for wheel cover	37.43	...Permanently secured to wheel
37.22	..Tire sidewall	38.1	.Emergency
37.23	...Retained on wheel cover	39.1	..Tire or rim
37.24	..Trim ring covering rim only	40.1	...Traction increasing
37.25	..With relatively rotatable element	40.2	....Auxiliary tire mounted to one side of main wheel
37.26	..Including distinct central medallion	40.3	...Safety emergency tire or rim
37.27	...Attached to plastic cover permanently secured to wheel	40.4	...Rim clamp for securing emergency tire to rim
37.28	..Including access door	40.5	...Cover cleated to wheel to provide smooth road surface
37.29	..Wire-spoke wheel simulating wheel cover	40.6	..Auxiliary wheel movable radially into emergency position
37.102	..Fastening arrangements	41.1	.Traction increasing
37.31	..Including resilient securing means	42	..Chains
37.32	...Resilient securing ring on cover	43	..Projecting cleat
37.33	....Acting to bias portion of cover into engagement with wheel	44.1	...Removably attached
37.34	...Detachable	44.2	....Of resilient material
37.11	...Including adhesive	44.3	....To rim
37.12	...Including compressible member (i.e., rubber)	44.4	....To wheel body
37.371	...Including threaded means	45	...Movable
37.35	..Wheel body or rim having integral securing bump	46	....Adjustable
37.36	...Bump on rim	48	.....Alternately projecting and retracting
37.103	..Temporary wheel shield	49	.....Supported by supplemental wheel attachment
37.104	..With holding means	47	....Supported by supplemental wheel attachment
37.105	..Cover on back side of wheel	50	....Individually
37.106	..Made of plural segments	51	....Spring moved
37.107	...Each segment independently fastened to wheel	52	..Dual rims, connecting cleat
37.108	..Having visibility enhancing feature	53	..Recessions in rim
37.109	..Having display means	53.5	..Wheel weight
37.38	...Central thread	54	.Part of wheel body under tension, part under compression
37.372	....Cover held directly by lug nuts	55	.Tension wheel; e.g., spoke
37.373	.....Cover snap-fits over lug nuts	56	..Having spoke attached tangentially to hub
		57	..Having hairpin type spokes
		58	..Rim (or felly) and spoke connection

59	..Hub and spoke connection	69	....Screw
60	...Having provision to simultaneously tension plural spokes	70	...Including distinct spoke socket sleeve
61	...Distinct spoke socket sleeve	71	....At felly joint
62	.Compression wheel	72	...Combined felly joint
63.101	..Disc	73	..Plural spoke series
63.102	...Including seal or adhesive	74	...Hub and spoke connection
63.103	...Disc welded to rim	75	....Including provision for tightening spoke
63.104	....Having means for facilitating weld	76	....Driven spoke
63.105	....Welded at side of rim	77	....Including socket- strengthening means
63.106	...Full face wheel disc	78	....Spoke claiming hub members
63.107	...Having reinforcement means	79	..Single spoke series
63.108	....Reinforcement attached to disc	80	...Hub and spoke connection
64.101	..Wheel disc having spoke formation	81	....Including provision for tightening spoke
64.102	....Spoke unitary with rim	82	....Driven spoke
64.201	....Plural axially spaced disc members	83	....Including socket- strengthening means
64.202	.....Disc members removably joined	84	....Spoke claiming hub members
64.203	.....Disc members unitary with rim portion	85	....Ring-forming spoke ends
64.301	...Plural disc members	86	.Nonresilient tire
64.302	....Plural axially spaced disc members	87	..Including tire-securing device
64.303	.....Disc members unitary with rim	88	...Combined with felly joint
64.304	.....Disc members configured to retain rim	89	...Comprising interposed clips or wedges
64.305	.....Disc members removably joined	90	..With rail-climbing device
64.306	.....Including intermediate material or member between disc members	91	..Adjustable circumference tire
64.5	.....By tab struck from disc	92	...Adjustable by use of screw
64.307	...Made of plural sections	93	....Both right- and left-threaded
63.109	..Unitary with rim	94	...Adjustable by use of wedge
64.6	...Of fabric, wood or paper	95.101	.Rim
64.701	..Of plastic	95.102	..Composite
64.702	...Composite	95.103	...Laminated
64.703	....Reinforced	95.104	..Having annular chamber
64.704	...Spoked	95.105	...Formed by folded rim portion
64.705	....Hollow or filled	95.106	...Formed by plural concentric rim portions
64.706	...Two halves joined together	95.107	..Including reinforcing
64.707	...Disc forms integral ground engaging	95.108	...By thickening rim portion
65	..Of cast metal	95.109	..Having dissimilar tire bead supports
66	..Integrally connected spokes	95.11	..Made of plural sections
67	..Rim (or felly) and spoke connection	99	..Joint
68	...Adjustable	100	...Adjustable
		101	....Adjustable by use of screw
		102	....Both right- and left- threaded
		103	....Adjustable by use of wedge
		104	.Spoke
		105.1	.Hub
		106	..Having reenforcing band or casing

107 ...Point band  
 108.1 ..Hub cap  
 108.2 ...Having transparent window  
 108.3 ...Plastic hub cap  
 108.4 ...Retained by threaded means  
 108.5 ....Central-threaded means  
 109 ..Axle box  
 110 ...Mounting  
 110.5 ..For cycle-type vehicle  
 110.6 ..Circumferentially divided  
 111.01 .Device for attaching wheel to  
         axle  
 112 ..Outer-end stop  
 113 ...Linchpin  
 114 ...Screw  
 115 ....Adjustable plural-part nut  
 116 ....With hub-driven wrench  
 117 ....Tap bolt  
 118 ...Bayonet means  
 119 ...Pivoted means  
 120 ...Sliding means  
 121 ..Movable latch detent  
 122 ..Stop-engaging collar or sleeve  
 111.02 ..Including splines  
 111.03 ..For attaching hub to axle  
 111.04 ..Adaptor for mounting wheel to  
         axle  
 111.05 ..Vehicle housing with means to  
         receive wheel or axle  
 111.06 ..Vehicle leg or extension to  
         receive axle  
 111.07 ..Device includes two distinct  
         retainer elements  
 123 ..Sand band  
 124.1 **AXLE**  
 124.2 ..With distinct handle to effect  
         mounting on cycle-type vehicle  
 125 ..With provision to interfit with  
         vehicle  
 126 ..Rotary shaft or spindle  
 127 ..Cranked or bowed  
 128 ..Varying-length adjustment  
 129 ..Trussed  
 130 ..Emergency repair provision  
 131 ..Spindle  
 132 ..Mounting  
 133 ...Spring  
 134 ..Skein  
 135 ..Mounting  
 136 ...Spring  
 137 ..Including housing for drive  
         mechanism

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