

1	<b>MISCELLANEOUS</b>	833	.Saddle type; vehicle frame straddling
827	<b>SIMULATIONS OF THE VELOCIPEDA TYPE</b>	834	.Service tank
828	.Occupant propelled	835	..Cycle type
829	..Boat	836	.Ground engaging or rolling wheel type
1.12	..Aircraft	837	.Semitrailer tank vehicle
1.13	..Figure	838	.Tank truck
1.14	...Noise makers	839	.Trailer tank vehicle
1.16	...Figure and carriage	5.2	<b>STEP OR ABUTMENT ASCENDING TYPE VEHICLE</b>
1.165	....With moving figure or figure parts	5.22	.With endless track
1.167	.....Relatively movable legs	5.24	.With skid or rollerway
1.173	...Plural	5.26	.With spider-type engaging means
1.175	...Progressing rocker type	5.28	.Relatively movable running gear portions
1.177	...Plural relatively moving rockers	5.3	.Jack-type attachment (i.e., elevating)
1.181	...With alternately advanced ground engaging means	5.32	.Fulcrum attachment
1.182	....Galloping progression	5.5	<b>SUSPENSION MODIFICATION ENACTED DURING TRAVEL (I.E., ACTIVE SUSPENSION CONTROL)</b>
1.183	.....Foot or saddle actuated	5.501	.Including fail-safe override of hazardous condition
1.184	.....With additional ground engaging means	5.502	..Of lateral vehicle attitude (e.g., antiroll, antisway)
1.186	...Occupant not astride	5.503	.Priority assignment between diverse control criterion
1.188	...Convertible, interchangeable, or adjustable	5.504	.Including condition or parameter adjustment occurring at longitudinally spaced vehicle axles
1.189	...Combined	5.505	..Applied between diagonally opposed suspension units
1.191	...With rider body motion	5.506	..Controlling lateral vehicle attitude (e.g., antiroll, antisway)
1.192	...With figure motion	5.507	.Lateral and longitudinal vehicle attitude control (e.g., combinations of antitive, antipitch, antiroll, antisquat, antisway, antiyaw, riding, or suspension height)
1.193	....Platform rocker type	5.508	.Lateral vehicle disposition
1.194	....Additional relatively movable drive	5.509	..Body banking
1.195	.....Rigid or rigid link steering	5.51	..Steering element responsive (e.g., steering angle, steering rate)
1.196	.....Body centrally pivoted	5.511	...Applied to sway or torsion bar
1.201	..Movably mounted figure or figure parts	5.512	...Including suspension stiffness for ride comfort (e.g., damping coefficient, spring rate)
1.202	....Steering movement		
1.203	.....Body hinged in vertical plane		
1.204	....Movable legs		
1.206	...Rein steered or driven		
1.207	...Stirrup steered or driven		
1.208	...Hollow body		
1.21	.Aircraft		
1.22	.Figure		
1.23	..Attendant propelled		
1.5	<b>WITH MEANS FOR ENGAGING BODY OF WALKING ATTENDANT</b>		
3	<b>WHEELED PROPELLED</b>		
4	<b>HOSE AND LADDER</b>		
830	<b>TANK OR BOILER</b>		
7	.With tank leveling device		
831	.Tank forms load support		
832	.Insulated tank walls		

5.513	.Longitudinal vehicle disposition (e.g., antidive, antipitch, antisquat)	11 841	..Pivoted lateral axis <b>SKATES</b>
5.514	.Riding or suspension height (e.g., ground-clearance, "trim height")	11.115 11.12 600	.With propulsion means driven by occupant .Runner type ..Snow skates
5.515	.Suspension stiffness for ride comfort (e.g., damping coefficient, spring rate)	601 602	..Skis ...With camber or flexibility control
5.516	..Bushing compliance	603	...Knockdown, folding, or collapsible
5.517	..Look ahead		
5.518	...Traveling surface inspection	604	...With climbing or braking means
5.519	..Plural distinct modes (i.e., HARD-SOFT)	605	...Pivotally mounted brake member
5.52	.Suspension geometry (e.g., camber, caster, toe-in/toe- out, wheel track, road contact)	606 607	...Steerable or with handle ...With foot supporting plate or portion
5.521	..Camber or caster	608	...With edge or guide strip
5.522	..Toe	609	...With special shape, contour, or groove
5.523	...Bushing compliance	610	...Laminated or synthetic material
5.524	....Nonsteered wheel (e.g., independent rear suspension)	11.14	..With resiliently mounted foot supports
6.15	<b>BODY ELEVATION OR TILT</b>		
6.151	.Loading position	11.15	..Jointed runner and foot supports
6.152	..Occupant ingress or egress	11.16	..Extensible
6.153	.Static site leveling (e.g., camper, mobile home, recreational vehicle, work vehicle)	11.17 11.18	..Tubular foot posts ..Runners
6.154	.Terrain slope compensation	842	.Ski simulators
6.155	..Individual ground engaging means vertically movable	843 844	.Ball type roller skates .Endless tread skates
6.156	...Longitudinally extending support arm	11.19	.Wheeled skate
6.157	.Establishing riding or trim height	11.201	..With retrogression prevention
6.158	..Including dwell period (e.g., delay, inactive, suppression)	11.202	..Including skate ventilation
6.159	..Load responsive	11.203	..Including lighting means
6.16	...Lateral vehicle attitude	11.204	..With brake
7.1	<b>CONVERTIBLE (I.E., VELOCIPEDE TYPE)</b>	11.205	...Continuously applied brake
7.11	.To drop frame	11.206	...Brake includes roller engageable with skating surface
7.12	.Wheel to or from runner	11.207	...Brake element rigidly attached to skate frame
7.13	..Skates	11.208	...Brake element engageable with skating surface
7.14	..Substituted	11.209	....Element attached to front end of skate
7.15	.Occupant propelled	11.211	...Brake element movably mounted to skate frame
7.16	..To or from plural occupant	11.212	...Hand actuated brake controller
7.17	..To nonpropelled	11.213	....Wireless brake controller
8	<b>WHEELED AND RUNNER</b>	11.214	....Leg operated brake controller
9	.Retracting wheel or runner		
10	..Wheel-runner type		

11.215	....Brake element pivotally mounted	624	....Side or rear hold-down only (e.g., "Spademan" bindings)
11.216	.....Brake element engageable with skating surface	625	....Clamp comprises plural sole engaging members
11.217	....Brake element engaging skating surface and wheel	626	....Pivotal about horizontal and/or vertical axis
11.221	..In-line wheels (e.g., in-line skates)	627	....With nonpivotal hold-down or clamp
11.222	...Different size wheels	628	....Pivotable about both horizontal and vertical axis
11.223	...Axle mounting arrangement	629	....Pivotable about vertical axis or axes
11.224	...Including pivotally mounted boot	630	.....Single fixed axes
11.225	...Including shock absorbing means	631	.....Single, fixed, transverse horizontal axis
11.226	...Spherical wheels	632	.....With latch or catch means
11.227	...Cylindrical wheels	633	....With adjustable or detachable support
11.231	...Three or four wheels	634	....With specific detent, adjustment, or tension structure
11.232	....A wheel raised above skating surface	635	....Toe irons (i.e., side cheeks)
11.233	...Two wheels	636	...Sole supports and antifriction devices
11.24	..One-wheel	637	...With runaway strap
11.25	..Two-wheeled	11.36	..Ankle braces
11.26	..Extensible	809	<b>SKI OR SKATE APPLIANCE OR ATTACHMENT</b>
11.27	..Trucks and mountings	810	.Wind sail for propelling or braking skier or skater
11.28	...Resiliently yieldable	811	.Ice or roller skate boot attachment (e.g., cover, protector, etc.)
11.3	.Shoe attaching means	812	.Seat supported by ski pole
11.31	..Toe and/or heel clamps	813	.Ski or pole having means to scrape snow or ice from ski or boot
11.32	...Screw actuated	814	.Clamp, tie, or case for carrying or storage of skis
11.33	...Lever actuated	815	..Prevents warp, maintains camber, or conforms to ski shape
11.34	....With screw adjustment	816	.Combined
611	..Ski fasteners	817	.Anti-crossover for skis
612	..Magnetic	818	.Having means interconnecting skis for training
613	...Operating mechanism located in or under boot	819	.Ski pole
614	...Cross-country to or from downhill	820	..Having means to interconnect with another pole
615	...Cross-country only	821	..Hand grip
616	...Toe and heel fasteners interconnected for simultaneous operation	822	...Having quick release means
617	...Toe and heel fasteners mounted on common support plate or element	823	..Adjustable length (e.g., retractable tip)
618	....Plate is movable or releasable from ski	824	..Ring or basket
619	...Heel cable and/or ankle strap type		
620	....Attached to movable or releasable plate		
621	....Cable tightening mechanism mounted on ski		
622	....With means to separate cable or pull cable from boot		
623	...Hold-downs or clamps		

825	.Scabbards for ice or roller skates	201	..Combined with pump
826	.Riding stick	202	..With carrier
845	<b>RUNNER VEHICLE</b>	203	...Sidecar type
12.1	.With occupant propelled means	204	...Trailing vehicle
12.11	..Intermittent ground engaging	205	..Single axis or wheel
12.12	...Foot actuated	206	...Occupant within wheel
12.13	..Traction wheel drive	207	....Epicyclic or squirrel cage type
12.14	...Foot actuated	208	....Dicycles
13	.Wheel runner	209	..Parallel connected cycles
14	.Hub runner	210	..With propulsion means
14.1	.Skis converted to sled	211	...Steering by driving
14.21	.Standing occupant	212	...Added or stored energy device
14.22	..With two bindings mounted on single platform	213	....Sail attachments
14.23	...Bindings interconnected for simultaneous release	214	....With occupant propulsion means
14.24	...Bindings pivot about vertical axis	215	.....Interposed power storing device
14.25	..Platform supported by tandem runners	216	.....Fluid system
14.26	..Platform supported by side by side runners	217	.....Flywheel or weight
14.27	..With handle	218	...Inching or step-by-step
14.28	...Steerable handle	219	..Intermittent ground engaging drive
15	.Multiple sled	220	...Movable occupant support
16	..Occupant steered	221	...Interconnected with propulsion means
17	..Swivel and rocking	222	....Plural occupant propelled
18	.Toboggan	223	....With added power application
18.1	..Bowl or saucer type	224	.....Hand and foot
19	..Drag	225	.....Hand
19.1	.Shelter sled	226.1	....Movable seat
20	.Folding	227	.....And crank hanger
21.1	.Occupant steered	228	....Treadmill type
22	..Flexible runner	229	...Eccentrically mounted wheels
22.1	..Tiltable runner type	230	...Plural power application
23.1	.Push	231	...Plural occupant propelled
24	.With draft attachment	232	....Hand and foot
25	.Spring	233	...Hand and foot
26	.Rocker runner	234	....Interconnected steering means
27	.Knees	235	....Seat or body steered
28	.Runner bases	236	...Reversing and power ratio change
28.11	.With brake	237	...Reversing
28.12	.Container type	238	...Shiftable clutch or gearing
28.13	.Logging type sled	239	...Three tandem wheels
28.14	.Central runner	240	...Interconnected steering means
28.15	..With auxiliary outrigger runner	241	...Intermittent gripped belt or chain
28.16	.Auxiliary top, bottom, or side runners	242.1	...Hand propelled
28.17	.Machinery sled	243	....Strap, drum, and ratchet
28.18	..Tank or vacuum cleaner	244	....Oscillating lever
28.5	<b>WHEEL SUBSTITUTE</b>	245	....Rack and pinion
29	<b>WHEELED</b>	246	....Linkage and ratchet
200	.Occupant propelled type		

247	.....Linkage and crank	295	....Combined and/or convertible
248	.....With gearing	296	.....With wheel or propulsion engaging means
249	...Hand wheel or crack and gearing	297	.....With locking means
250	.....Belt or chain	298	....Pivoted and extensible
250.1	...Wheelchair type	299	.....U-frames
251	...Strap, drum, and ratchet	300	.....Plural leg
252	...Reciprocating power application	301	....Pivoted
253	...Oscillating lever	302	.....U-frames
254	...Rack and pinion	303	.....Plural leg
255	...Linkage and ratchet	304	....Extensible or sliding
256	...Linkage and crank	304.1	..Wheelchair
257	.....With gearing	304.2	..Wheel driven
258	...Ratchet and gearing	304.3	...Guards and reinforcements
259	...Rotary crank power	304.4	...Occupant engaging
260	...With gearing	304.5	...Handling and carrying attachments
261	.....Belt or chain	30	..Convertible
262	...With pitman	31	..Cradle or crib
263	..With steering	32	..Skids
264	...Combined with brake	32.5	..With worker's support or shade
265	...Foot steered	32.6	..Repairman's creepers
266	...Seat or body steered	32.7	..Riding attachment
267	...Two-wheel controlled	400	..Articulated vehicle
268	...Centering	401	..Collapsible to superposed relation
269	....Stub axle	402	..Single end suspension of transported vehicle
270	...One-wheel controlled	403	..With access between vehicles
271	...Centering	404	..Load separately supported on plural units (e.g., pole carrying type)
272	...Checked	405.1	..Load distribution adjustment
273	...Plural occupant	406.1	...Plural connections
274	...Frames and running gear	406.2	...House trailer hitch type
275	.....Yielding	407	...Adjustable connection to leading vehicle
276	.....Front forks and heads	407.1	...Semitrailer type
277	.....Independent wheel mounting	408	..With draft means at front and rear of same vehicle (e.g., vehicle train)
278	.....Extensible and knockdown	409	...For laterally offset vehicles
279	.....Front forks and heads	410	...Direct draft
280	.....Crowns	411.1	..Multiple trailing vehicles
281.1	..Frames and running gear	412	...Adjustable position
282	...Polycycles	413	....Abreast
283	...Yielding	414.1	..Boat carrying type
284	...Rear forks	414.2	...Temporarily attached wheel assembly
285	.....Independent wheel mounting	414.3	...Boat suspending means
286	...Independent wheel mounting	414.5	..With actuator for moving trailing vehicle wheel vertically
287	...Extensible and knockdown	415.1	..Convertible
288	...Rear forks		
288.1	...Low profile		
288.2	...Combined with body		
288.3	...Hollow shell frames		
288.4	..Attachments and accessories		
290	...Occupant body harness		
291	...Steps and foot rests		
292	...Towing attachments		
293	...Props and steadying devices		
294	....Pedal attached		

416	...Animal and vehicle draft	445	....With steering disabling means
416.1	...Convertible or interchangeable from one type coupling to another	446.1	..Condition responsive connections
416.2	....From three point hitch	447	...Freely laterally shiftable
416.3	...Male and female coupling member	448	...Reversal responsive articulation modification
417.1	....To or from gooseneck	449	...Overload release
418	...Two-wheel and four-wheel	450	....Notched bar and detent
418.1	...Semitrailer-type vehicle	451	....Frangible member (e.g., shear pin)
419	..Interconnected steering of plural units	452	....Pivoted jaw or hook
420	..Service connections	453	....Linear motion hook release
421	...Fluid	454	....Double link retainer
422	...Electric	455	....Resilient keeper
423.1	..Semitrailer	455.1	...Antisway hitch
424	...Passenger carrying type	456.1	..Plural or laterally adjustable connections
425.1	...Coupling and uncoupling with facilitating lift means	457	...Auxiliary safety connection
425.2	...With additional detachable or shiftable gooseneck	458	...With crossed connections
426	...Steering by articulative movement	459	...Auxiliary tracking connection
427	...Interrelated operation of coupling, landing gear, and brake	460.1	..Laterally spaced parallel connections
428	....Interrelated brake and coupling	461.1	..Vertically spaced connections
429	....Landing gear actuated by coupling action	462	..Angularly adjustable trailer tongue
430	....Longitudinally movable trailer coupling	463	....With actuator
431	....Landing gear and coupling interlock	464	....Gearing
432	...Safety devices	465	.....Screw
433	...Fifth wheel only	466	.....Belt and sprocket
434	....Self-coupling	467	...Laterally or angularly adjustable vehicles
435	....Double pivoted jaws	468	....With actuator
436	.....Urged to retaining position by draft	469	....Gearing
437	....Transverse horizontal pivot retainer	470	.....Screw
438.1	....Movably mounted	471	.....Belt and sprocket
439	....Resilient	472	..Laterally offset
440	.....Rubber	473	...Side draft
441	.....Slidably mounted	474	..Selectively rigid or flexible
441.1	.....Turntable-type fifth wheel coupling	475	..With retractable ground support
441.2	...Detachable or shiftable gooseneck type	476.1	..Wheeled draft connection
442	..Wheel steering by articulative movement	477	..Connection facilitating
443	...Stub axle	478.1	...Draft element bodily shiftable
444	....Drawbar pivoting	479.1	....With motor
		479.2	....Telescoping drawbar swingable on horizontal guide
		479.3	...Extensible swingable tow bar with coaxing guide for centering
		480	..Tow ropes, chains, etc.
		480.1	...With particular storage for retracted position
		481	..Pusher type
		482	..Adjustable length draft devices

483	..Resilient	33.995	..With means facilitating unloading
484	...Plural biased movements		
485	....By single resilient element (e.g., rubber block type)	33.996	..Pivoted load support
486	...In line of draft	33.997	..Load supporting frame
487	....To intermediate position	33.998	..Vertically nestable or confined
488	...About vertical pivot	638	.Extensible
489	...About horizontal transverse pivot	35	..Article support
490.1	..Vertically adjustable	639	..Folding
491.1	..Retractable, foldable, or knockdown	640	...Casket or stretcher type
491.2	...Telescoping	37	...Traveling case
491.3	...Pivoting to nonuse position with single draft member	38	...Pivoted wheel carrier
491.4	..With folding braces movable to collapsed position	39	....Longitudinal axis
491.5	...Readily demountable hitch	40	.....Two-wheel
492	..Plural articulation axes	641	....Transverse axis
493	...Tow bar	642	.....Three- or four-wheeled chair, baby carriage, or stroller
494	....Horizontal pivot with vertical or universal pivots	643	.....Convertible
495	..Vehicle mounting or clamp	644	.....Body made of flexible material
496	...Forward of leading vehicle rear axle	645	.....One- or two-wheeled cart
497	..Vertically spaced connections of draft element to leading vehicle	646	.....Laterally, inwardly collapsing wheels
498	...Pivoted	42	...Lateral
499	....Vertical pivot and spaced horizontal guide	647	..Wheeled chair, stroller, or baby carriage
500	...Modified bumper or noncoupling bumper clamp	648	...Convertible
501	....With other vehicle connection	649	...With pair of laterally spaced "x" members
502	....Bumper clamp	650	...Chair or stroller for seated occupant
503	...Axle connection	651	...Cart
504	..Coupling	652	...One- or two-wheeled
505	...Bumper forms coupling element	653	....Wheelbarrow
506	...Rattle preventing	654	....Wheels attached to lower end of handle frame
507	...Protector or lock	655	....Collapsible handle
508	...Self-coupling	655.1	...Handle only is collapsible
509	....Biased open	656	..Trailer
510	....Opened by opposite coupling part	657	..Carriage for live occupant
511	...Ball and socket	658	...Child's carriage
512	....Pivoted jaw or retainer	659	..Hand cart of barrow
513	....Reciprocating jaw or retainer	43	..Vertically adjustable wheels
514	...Interlocked	46	...Tongue
515	...Draft pin	47	...Wheel adjusted by its own power
33.991	..Nesting vehicles	43.1	...Tilttable vehicle stabilized by attendant or article
33.992	..Attachments or accessories	43.11	...Load surface below wheel axis
33.993	...Children's seat	43.12	...Pallet truck type
33.994	...Brake or antitheft device	43.13	...Interconnecting means for adjusting wheels on different axles

43.14	....With nonwheel means for engaging the supporting surface	47.28	.....With auxiliary toe or rack
43.15	.....With means to vary distance between wheels	47.29	.....Movable
43.16	....With means to vary distance between wheels	47.3	...Single wheel vehicle
43.17	...With actuator	47.31	...With receptacle body (e.g., wheelbarrow)
43.18	....With resilient mounting for body	47.315	...Adjustable handle
43.19	....With flexible connection	47.32	..Single wheel vehicle
43.2	....Screw-jack type	47.33	..With leg supports
43.21	....Rack and pinion or ratchet type	47.331	..Boat carrier
43.22	....Translating motion	47.34	.Stable vehicles, handle-propelled
43.23	....Power operated	47.35	..Plural load supports
43.24	...With nonwheel means for engaging the supporting surface	47.36	..Reversible handles
87.01	.Coasters	47.371	..Adjustable handle
87.021	..Occupant-pushed	47.38	..Occupant seating type (e.g., baby carriages)
87.03	...Yieldable	47.39	...Reversible body
87.041	...Standing occupant	47.4	...Seat with back and/or foot rest
87.042	....Steered by tiltable platform (e.g., skateboard)	47.41	...Body movably supported relative to wheels
87.043	....Rear steering platform on coaster wagon	2	.Dropped bodies
87.05	...Extensible or knockdown	62	.Three-wheel
87.051	...Baby walker	63	.Two-wheel
47.1	.Body rocking by wheel rotation	64	..Adjusting wheels
47.11	.Wheel steering by attendant	65	..Spring
47.12	.Vehicles with rocker or fulcrum supports auxiliary to wheels	66	...Thill and axle connected
47.131	.Tiltable vehicles, stabilized by attendant or article	67	....Interposed spring
47.15	..Vehicle axle, shaft, or spring engaging	68	.....Body thill mounted
47.16	..With auxiliary wheel stabilizing means at both ends	69	.....Body axle mounted
47.17	..Handle-propelled vehicles	70	....Body thill mounted
47.18	...Convertible, selective, or changeable body	71	.....Adjustable
47.19	...Plural load supports	72	....Body axle mounted
47.2	...With auxiliary wheel stabilizing means	73	.....Adjustable
47.21	...With shiftable main axle support	74	....Adjustable
47.22	....Spring suspension	75	...Thill and body connected
47.23	...Load base below wheel axis (e.g., drop body type)	76	....Adjustable
47.24	...Laterally spaced wheels	77	...Adjustable
47.25	....With occupant seat	78	.One-wheel
47.26	....With receptacle body	79	.Spring
47.27	....With toe (e.g., warehouse truck)	79.11	.Body with bracketed-type or nonsuspended axles (e.g., platform type)
		79.2	..Receptacle or occupant seating body
		79.3	..Rack-type body
		79.4	..Wheel or tire support body
		79.5	..Bucket or can support body
		79.6	..Cylindrical objects with elongated horizontal axis support body
		79.7	..Vertically elongated rectangular object support body

80.1	.Running gear	788	...With resilient means for suspension
81.1	..Multiple truck	789	...Trailer type
81.5	...Occupant steered	790	...Having vertically offset load bearing surface
81.6	...Self-steered trucks	791	...Pinched frame type
82	..Tongue truck	792	...Wide-hipped frame type
83	...Vertically adjustable	793	...X-frame type
84	...One-wheel	794	...Transverse frame members form "X"
85	...Swinging axle and rocking	795	...Transverse member is body support
86	..Swivel truck	796	...Having tubular transverse frame member
86.1	...Including resilient mounting	797	...Longitudinal frame member is box-shaped
86.5	..Auxiliary axle assembly (e.g., lift or tag axle)	798	...Longitudinal frame member is tubular
86.75	..Alignment adjustment	799	...Longitudinal frame member is an "I" beam
86.751	...Camber or caster	800	...Longitudinal frame member is channel-shaped
86.752	....Vertical strut to tower	107	..With body or load retainers
86.753	....Shim (e.g., cam)	108	..With tongue antivibrators
86.754	....Eccentric coupling	124.1	..Suspension arrangement
86.755	.....Including tool means	124.101	...Including preparatory elasticity parameter selection
86.756	.....Ball joint or bushing	124.102	....Manual actuation
86.757	....Adjustable control rod	124.103	...Body banking on turning
86.758	...Steerable wheel toe	124.104	...Antidive or antisquat
98	..Short turn	124.105	....Brake reaction device
99	...Four-wheel controlled	124.106	...Antiroll or antisway
100	....Oppositely swinging axles	124.107	...Centrifugal force transmission linkage
101	.....Pivoted and sliding reach	124.108	...Resonance vibration suppression
102	.....Crossed reaches	124.109	...Interposed frame structure (i.e., subframe)
103	...Stub axle	124.11	...Pivotally mounted axle or axle assembly
104	..Equalized frame	124.111	....Longitudinal pivot axis (i.e., rocking axle)
676	...Tandem axles	124.112	.....Including fluid actuator
677	....With walking beam	124.113	.....Including steerable terminal wheel spindle
678	.....With fluid-type suspension	124.114	.....And vertical pivot axis (i.e., swinging axle)
679	.....With torsion-type suspension	124.115	.....Fifth wheel articulated axle
680	.....With leaf-type suspension	124.116	...Horizontal and transverse pivot axis
681	.....With rubber-type suspension	124.117	...Vertical pivot axis (i.e., swinging axle)
682	....With rocker	124.118	.....Narrow track
683	....With fluid-type suspension	124.119	.....Differential motion
684	....With torsion-type suspension		
685	....With coil-type suspension		
686	....With leaf-type suspension		
687	....With rubber-type suspension		
105	..Roller bearing frame		
781	..Specific vehicle frame		
782	...Forming fluid or electrical conduit means or having other means to accommodate the transmission of a force or signal		
783	...Having storage compartment		
784	...Having impact absorbing means		
785	...Assembled from prefabricated connectable sections		
786	...Single longitudinal beam type		
787	....With spring suspension means		

- 124.12 .....With draft attachment
- 124.121 .....Resilient connection detail
- 124.122 .....Offset pivot
- 124.123 .....Telescopic members
- 124.124 .....Fifth wheel supported upon transverse leaf spring
- 124.125 ...Wheel separately supported upon individual stub axle (e.g., skein, spindle)
- 124.126 ....Steering pivot confined within boundary of wheel
- 124.127 ....Sliding connection (e.g., pillar and sleeve)
- 124.128 ....Longitudinally extending swinging support arm (i.e., leading or trailing swing arm)
- 124.129 .....Road arm
- 124.13 .....Stabilizer means within connection housing of arm pivot (e.g., bushing, spring, torsion rod)
- 124.131 .....Spring-like arm
- 124.132 .....Intermediate of support arm (e.g., semileading or semitrailing arm)
- 124.133 .....Arm having plural segments or dissimilar materials
- 124.134 ....Lateral control arm (i.e., suspension arm)
- 124.135 .....Plural lateral control arms
- 124.136 .....Upper and lower arms having aligned outboard ends
- 124.137 .....With torsion bar
- 124.138 .....Specific spatial location
- 124.139 .....Unequal length
- 124.14 .....Spring-like arm
- 124.141 .....Interposed coil spring
- 124.142 .....Coil spring disposed above upper arm
- 124.143 .....Longitudinally spaced outboard ends
- 124.144 .....Resilient coupling
- 124.145 .....Including vertically extending strut
- 124.146 .....Turnable telescopic strut (i.e., MacPherson strut type)
- 124.147 .....Upper strut mount detail
- 124.148 .....Including longitudinally extending control arm or strut
- 124.149 .....Torsion stabilizer
- 124.15 .....Specific spatial location
- 124.151 .....Including spring retaining seat
- 124.152 .....Including stabilizer bar (e.g., sway bar)
- 124.153 ....Longitudinal control arm (i.e., suspension arm)
- 124.154 ....Vertically extending telescopic strut
- 124.155 .....Upper strut mount detail
- 124.156 ...Including "live" axle feature (e.g., differential)
- 124.157 ...Fluidic suspension
- 124.158 ....Hydraulic and pneumatic
- 124.159 ....Fluid handling details
- 124.16 ....Fluid handling details
- 124.161 ....Closed system
- 124.162 ....Including mechanical spring element
- 124.163 .....Leaf spring
- 124.164 ...Mechanical spring element
- 124.165 ....Plural diverse mechanical spring elements
- 124.166 ....Torsion spring
- 124.167 .....Longitudinally extending
- 124.168 .....Helical form
- 124.169 .....Elastomeric material
- 124.17 ....Leaf spring
- 124.171 .....Transverse
- 124.172 .....Reach attached
- 124.173 .....Sidebar attached
- 124.174 .....Plural cooperating leaf springs (e.g., full elliptical spring, helper springs)
- 124.175 .....Connection detail
- 124.176 .....Lateral force compliance for steering deflection
- 124.177 ....Elastomeric spring
- 124.178 .....Shear force
- 124.179 ....Coil spring
- 771 ..Occupant steered
- 87.1 ...Foot operated
- 87.2 ...Outrigged wheel controlled
- 773 ...With manually powered hydraulic steering
- 774 ...With remote position steering
- 775 ...With adjustable steering wheel or column
- 776 ...Including bias means maintaining steerable wheel and elongate surface engagement (e.g., furrow followers)
- 777 ...Steering column or wheel movable in response to collision
- 778 ...Plural steering hand grips or noncoaxial steering wheel and column

779	...With steering column mount or support	149	..Irons and clips
780	....Having nonrigid member	149.1	..Interchangeable axles
88	...Combined brake	149.2	..Longitudinally shiftable running gear
89	...Checked	727	.Attachment
89.1	....Stub axle supported wheels	728.1	..Inflatable passenger restraint or confinement (e.g., air bag) or attachment
89.11	.....Center or neutral angulation	728.2	...With specific mounting feature
89.12	.....Linkage member or attachment	728.3	...Deployment door
89.13	.....Fluid	729	...Plural compartment confinement (e.g., "bag within a bag")
90	....Fluid	730.1	...Inflated confinement specially positioned relative to occupant or conforming to the body shape of occupant
91.1	...Four-wheel controlled	730.2	....Mounted in vehicle and positioned laterally of occupant
92	...One-wheel controlled	731	...Deflated confinement located within or on steering column
93.5	...Monitoring or indicating means	732	...Deflated confinement located in or on instrument panel
93.501	....Neutral position	733	...In the form of or used in conjunction with a belt or strap
93.502	....Linkage	734	...Responsive to vehicle condition
93.503	....Auxiliary or redundant	735	....Electric control and/or sensor means
93.504	....Swinging axle or half-axle	736	...With source of inflation fluid and flow control means thereof
93.505	.....Narrow track (e.g., tricycle-type tractor)	737	....With means to rupture or open fluid source
93.506	....Differential steering	738	....With means to aspirate ambient air
93.507	....Idler arm	739	....With confinement deflation means
93.508	....Articulated joint structure	740	....With means to diffuse inflation fluid
93.509	.....Motion modifier (e.g., lash, play)	741	...Inflation fluid source
93.51	....Link member details (e.g., configuration, construction)	742	...Flow control means
93.511	.....Terminal attachment detail (e.g., ball joint)	743.1	...Specific confinement structure
93.512	....Kingpin, steering knuckle, steering arm, or wheel carrier construction	743.2	....With confinement expansion regulating tether or strap
93.513	....Gearing arrangement	801.1	..Safety belt or harness (e.g., lap belt or shoulder harness)
93.514	.....Rack and pinion	801.2	...Having adjustable anchor means
93.515	.....Housing attachment detail	802	...Passive restraint system
137.5	..Turnable axle (e.g., fifth-wheel or swinging axle)	803	....Having belt retractor mounted on vehicle closure
137.501	...With draft attachment	804	....Having belt connected to member slidable in a vehicle-mounted track
137.502	...Fifth-wheel or pivot details	805	...With energy absorber
137.503	....Spherical union (i.e., ball and socket joint)		
137.504	....Perch or reach bracing		
137.505	....Offset pivot		
137.506	....Kingbolt detail		
137.507	....Antirattler		
139	..Hounds		
140	..Reaches		
141	...Swivel		
142	...Extensible		
143	..Bolsters and standards		
144	...Varying width adjustment		
145	...Pivotally connected		
146	...Vertically adjustable standard		
147	...Readily removable standards		
148	...Supplemental bolsters		

806	...Inertia responsive locking or tightening of belt or harness	850	....Scuff pads and covering shields for fenders
807	...Retractable	851	...Splash guards
808	...Shoulder belt or harness	852	....For velocipedes
748	..Passenger safety guards	155	...Thill or tongue attached
749	...Safety net, curtain, or transparent sheet	156	...Wheel attached
750	...Connected to the steering wheel or column	157	...Axle attached
751	...Padded or cushioned member	853	...Aperture fender wall with closures
752	....Instrument panel or dashboard	854	...Fender braces
753	....Positionable by automatic actuator	855	..Wheel scrapers and cleaners
754	..Vehicle spring jacking lock, between sprung and unsprung mass	158.1	...Velocipede type
755	..To prevent vehicle tip or tilt	856	...Wheel scrapers for dual wheels
756	..Roll bars and/or overhead guards	159	..Dust guards
757	..Antiskid or slide	160	..Wheel guards
758	...Shiftable-type antiskid counter weights	160.1	...Velocipede type
759	...Static-type antiskid counter weights	161	..Chafe irons
760	..Auxiliary platform or frame attachment for tractors	162	...Roller
761	..Parking assisting devices, nonpowered	163	..Steps
762	..Exterior	164.1	...Combined devices
763.1	...Retractable prop, support, or stabilizer	164.2	....Steps combined with shoe scrapers
764.1	....With actuator for pivoted support	165	...Wheel or axle attached
765.1	.....Having additional translating or telescoping movement	166	...Shiftable
766.1	....With actuator for translating or telescoping movement	169	...Treads
767	..Auxiliary wheel	170	..Whip sockets
768	...Trailer skirts	171	...Whip gripping
769	..Article carriers	172	....Spring
770	...For protecting the vehicle body	173	....Rubber gaskets
151	..Auxiliary load starters	174	....Pivotally connected sections
847	..Dust and mud guards	175	...Brackets and clips
152.05	...With wheel or tire carrying means	176	...Lock
152.1	...Velocipede type	177	...Combined rein holders
152.2	....Combined with wheel guards	178	...Whip manipulating devices
152.3	....Flexible or sectional	180	..Hay load binder
848	...Body attached	181	..Rein supports and guards
153.5	....Joints welts	182	..Rein holders
154	....Securing device	183	...Clamp
849	....Fender skirts	184	....Spring
		185	.....Pivoted jaws
		186	..Hitching and controlling devices
		187	...Weight
		188	...Ground engaging brake lever
		189	...Wheel operated
		190	....Winding drum
		191	.....Shiftable gear
		192	.....Clutch
			<b><u>CROSS-REFERENCE ART COLLECTIONS</u></b>
		900	<b>RUNNER VEHICLE ATTACHMENTS</b>

901        **ADAPTATION ON NONSPECIALIZED  
VEHICLES TO SEMITRAILER  
TRACTORS**

**FOREIGN ART COLLECTIONS**

FOR 000 **CLASS-RELATED FOREIGN DOCUMENTS**

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collections listed below. These Collections contain ONLY foreign patents or non-patent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

FOR 100 **BODY-LEVELING DEVICES (280/840)**

- FOR 101 .With ground engaging means moved vertically responsive to body level sensing means (280/6.1)  
FOR 102 .With ground engaging means interconnected for opposite vertical adjustment (280/6.11)  
FOR 103 .Using hydraulic motor (280/6.12)

**WHEELED**

- .Running gear  
..Occupant steered  
FOR 104 ...With cornering tipping deterrent (280/772)  
FOR 105 ...Stub axle (280/93)  
FOR 106 ....Centering (280/94)  
FOR 107 ....Link connected (280/95.1)  
FOR 108 .....Rotary shaft and gearing (280/96)  
FOR 109 .....Idler arm steering linkage (280/846)  
FOR 110 ....Mounts (280/96.1)  
FOR 111 .....With suspension means (280/660)  
FOR 112 .....With caster and/or camber adjustment (280/661)  
FOR 113 .....Plural diverse springs (280/662)  
FOR 114 .....Lever and spring (280/663)  
FOR 115 .....Torsion spring (280/664)  
FOR 116 .....Stabilizer bar (280/665)  
FOR 117 .....Coil spring (280/666)  
FOR 118 .....Coil located above upper lever arm (280/667)

- FOR 119 .....Coil mounted on turnable strut (e.g., "MacPherson-type" suspension) (280/668)  
FOR 120 .....Leaf spring (280/669)  
FOR 121 .....Coil spring (280/670)  
FOR 122 .....Rubber spring (280/671)  
FOR 123 .....Fluid spring (280/672)  
FOR 124 .....With connection or element feature (280/673)  
FOR 125 .....Ball joint feature (280/674)  
FOR 126 .....Geometric feature (280/675)  
FOR 127 .....Pivot in wheel plane (280/96.3)  
FOR 128 ...Swinging axle (280/97)  
FOR 129 ..Swinging axle and rocking (280/109)  
FOR 130 ...Spring (280/110)  
FOR 131 ..Rocking (280/111)  
FOR 132 ...Spring (280/112.1)  
FOR 133 ....Roll-responsive rocking axles for body banking (280/112.2)  
FOR 134 ..Swinging axle (280/113)  
FOR 135 ...Platform type (280/114)  
FOR 136 ....Spring (280/115)  
FOR 137 ...With draft attachment (280/116)  
FOR 138 ...Offset pivot (280/117)  
FOR 139 ....Spring (280/118)  
FOR 140 .....Longitudinal leaf (280/119)  
FOR 141 ...Spring (280/120)  
FOR 142 ....Leaf (280/121)  
FOR 143 .....Longitudinal (280/122)  
FOR 144 .....Cross (280/123)  
FOR 145 ..Suspension means (280/688)  
FOR 146 ...Antisway (280/689)  
FOR 147 ...Independent (280/690)  
FOR 148 ....Steerable (280/691)  
FOR 149 .....Plural diverse springs (280/692)  
FOR 150 .....Fluid (280/693)  
FOR 151 .....Leaf (280/694)  
FOR 152 .....Torsion (280/695)  
FOR 153 .....Coil (280/696)  
FOR 154 ....Plural diverse springs (280/697)  
FOR 155 ....Fluid (280/698)  
FOR 156 ....Leaf (280/699)  
FOR 157 ....Torsion (280/700)  
FOR 158 ....Coil (280/701)  
FOR 159 ...Fluid (280/702)  
FOR 160 ....Anti-nose dive and/or squat systems (280/703)

FOR 161 ....Wheel raising (280/704)	DIG 2	<b>WHEEL SUPPORTS FOR OUTBOARD MOTORS</b>
FOR 162 ....Road arm (280/705)		
FOR 163 ....Vacuum controls spring strength (280/706)	DIG 3	<b>WHEELED SHOPPING BAG</b>
FOR 164 ....With electrical control means (280/707)	DIG 4	<b>GROCERY STORE CART</b>
FOR 165 ....Hydro-pneumatic (280/708)	DIG 5	<b>MOTORIZED GOLF CARTS</b>
FOR 166 ....Hydraulic (280/709)	DIG 6	<b>WHEELED GOLF CLUB CARRIERS</b>
FOR 167 .....With nonfluid spring means (280/710)	DIG 7	<b>AIR BAG ROLLERS</b>
FOR 168 ....Pneumatic (280/711)	DIG 8	<b>SEPARABLE BODY OR CONTAINER-TYPE SEMITRAILERS</b>
FOR 169 .....With nonfluid spring means (280/712)	DIG 9	<b>OCCUPANT-STEERED TRAILERS</b>
FOR 170 .....With lever stabilizer means (280/713)	DIG 10	<b>STAIR CLIMBING CHAIRS</b>
FOR 171 ....With specific valve or valve arrangement (280/714)	DIG 11	<b>WALKING ATTENDANT STEERED TRAILERS</b>
FOR 172 ...Plural, diverse nonfluid springs (280/715)	DIG 12	<b>CLAMP-TYPE SKI BINDINGS HAVING PLURAL DIVERSE AXES OR CLAMPS</b>
FOR 173 ...Rubber (280/716)	DIG 13	<b>SKI BINDING CONTROLLED BY SKIER POSITION OR BY REMOTE CONTROL</b>
FOR 174 ....Torsion (280/717)	DIG 14	<b>TRACTOR-TRAILER BACKING CONNECTIONS</b>
FOR 175 ...Leaf (280/718)		
FOR 176 ....Transverse (280/719)		
FOR 177 ....Single leaf (280/720)		
FOR 178 ...Torsion (280/721)		
FOR 179 ....Coil (280/722)		
FOR 180 ....Transverse (280/723)		
FOR 181 ...Coil (280/724)		
FOR 182 ....With lever stabilizer means (280/725)		
FOR 183 .....Transverse lever (280/726)		
FOR 184 ..Swinging axle connections (280/125)		
FOR 185 ...Rocking (280/126)		
FOR 186 ....Platform types (280/127)		
FOR 187 .....Spring (280/128)		
FOR 188 ....Spring (280/129)		
FOR 189 ...Platform type (280/130)		
FOR 190 ....Spring (280/131)		
FOR 191 ...With draft attachment (280/132)		
FOR 192 ...Offset pivot (280/133)		
FOR 193 ....Spring (280/134)		
FOR 194 .....Longitudinal leaf (280/135)		
FOR 195 ...Spring (280/136)		
FOR 196 ....Longitudinal leaf (280/137)		
FOR 197 ...Antirattlers (280/138)		

**DIGESTS**

DIG 1 **LOAD RESPONSIVE (LEVELING OF VEHICLE)**