U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

CLASSIFICATION ORDER 1909

MAY 03, 2011

PROJECT MB180

The following classification changes will be effected by this order:

	Class	Subclass	Art Unit	Ex'r Search <u>Room</u>
Abolished:	180	205-207	3616	OS0001
Established:	180	205.1-205.7, 206.1-206.8, 207.1-207.3	3616	OS0001

The following classes are also impacted by this order:

No other classes were impacted by this order.

This order includes the following:

- A. CLASSIFICATION MANUAL CHANGES
- B. LISTING OF PRINCIPAL SOURCE OF ESTABLISHED AND DISPOSITION OF ABOLISHED SUBCLASSES
- C. CHANGES TO THE USPC-TO-IPC CONCORDANCE
- D. DEFINITION CHANGES AND NEW OR ADDITIONAL DEFINITIONS

MAY 03, 2011

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4.5.4		169	.Radiation, force, or waves
164	WITH POWERED MEANS FOR CREATING	100	reflected from external object
	FLUID FORCE TO ATTRACT VEHICLE		or surface
116	TO SURFACE OF TRAVEL	170	WITH MEANS RESPONSIVE TO SPEED OF
116	SURFACE EFFECT VEHICLES (I.E.,	170	VEHICLE FOR MAINTAINING SPEED
117	GROUND EFFECT MACHINES)		AT, OR PREVENTING IT FROM
117	.Having propulsion or control		EXCEEDING, A PARTICULAR VALUE
110	means	171	.Including device to signal to
118	Responsive to instability		operator existence of unusual
119	condition		or unintended speed
120	Surface contacting control	172	.Including device responsive to
	Integrated with working fluid		centrifugal force
121 122	With plural cushions	173	And means to prevent tampering
122	With dynamic seal or fluid		or unauthorized use
123	curtain	174	Having electrical switch
_	Spray deflector	175	.Including fluid pressure
124 125	Expansible chamber		actuated servomechanism
125	.Fluid bearing or fluid pad	176	And electrical quantities
126	Rigid side walls		comparison means for
127	.Flexible skirt		development of input pressure
128	Having outlet for working fluid	177	And one or more electrical
130	.Dynamic seal or fluid curtain		components for establishing or
165	Recirculating WITH FLUID OR MECHANICAL MEANS TO		regulating input pressure
103	ACCUMULATE ENERGY (I) DERIVED	178	.Including electrically actuated
	FROM MOTION OF VEHICLE OR (II)		servomechanism
	OBTAINED FROM OPERATION OF	179	And electrical quantities
	VEHICLE MOTOR, AND GIVE UP THE		comparison means for
	ENERGY (1) WHEN NEEDED FOR		development of electrical
	VEHICLE ACCELERATION OR (2) TO	100	input
	POWER AN AUXILIARY SYSTEM OF	180	SKI- OR SKATE-TYPE VEHICLE FOR
	THE VEHICLE		IMPARTING MOVEMENT TO A PERSON
166	WHEELED INFANT CARRIAGE OR CRIB	1.01	STANDING THEREON
	WITH DRIVEN MEANS FOR	181	.With power means or a portion thereof affixed to or built
	RECIPROCATING IT		into the ski or skate
	LONGITUDINALLY	182	INCLUDING ONE OR MORE SKI-LIKE OR
2.1	MOTOR SUPPLIED WITH POWER FROM	102	RUNNER MEMBERS
	EXTERNAL SOURCE	183	.Member substitutable for wheel
2.2	.Source comprises or includes	103	type support structure
	energy derived from force of	184	With propulsion element of
	nature (e.g., sun, wind)	101	endless track type
167	WITH MEANS FOR CONTROLLING	185	Track comprises substitute for
	OPERATION RESPONSIVE TO	100	or addition to propulsion
	ELECTROMAGNETIC RADIATION,		element of traction wheel type
	MAGNETIC FORCE, OR SOUND WAVES	186	.With at least one surface-
	RECEIVED FROM SOURCE, OR REFLECTED FROM OBJECT OR		engaging propulsion element
	SURFACE, LOCATED APART FROM	187	Element shuffles along support
	VEHICLE	-	surface
168	.Having controlling means adapted	188	Spiral type element
	to interact with stationary	189	Plural elements connected to
	means which describes course		and spaced along the plural
	of vehicle's travel		throws of a common crankshaft
		190	Endless track type element
		191	Protruding from member

192	Plural tracks with	6.48	.Independently operable drive
	interconnected drive or		motors
	support means	6.5	Electrical
193	With vertically movable track	6.54	.Variable contact
	support located intermediate	6.58	.Controlled from rotatably
	the forward and rearward		mounted superstructure
	extremities of the track	6.6	Steering responsive to rotary
194	Plural discrete elements		movement of superstructure
	protruding from a wheel, hub,	6.62	.Combined
105	or shaft	6.64	.Swinging traction frame
195	Each element moves relative to		responsive to differential
100	wheel, hub, or shaft		drive
196	Element comprises traction	6.66	.Reversing drive to traction
197	wheel	<i>c</i>	element
197	WITH MEANS FOR DETECTING WHEEL SLIP DURING VEHICLE	6.7	.Endless flexible track
	ACCELERATION AND CONTROLLING	7.1	SPECIAL DRIVING DEVICE
	IT BY REDUCING APPLICATION OF	7.2	.Spiral type element
	POWER TO WHEEL	7.3	.Reaction jet propulsion
198	PORTABLE CARRIER SUPPORTS MOTOR	7.4	.Propeller type
100	VEHICLE IN TOTO AND IS	7.5	.Vehicle mounted winch for
	PROPELLED THEREBY		pulling vehicle
199	WITH POWERED, GROUND-ENGAGING	8.1	.Stepper
	MEANS FOR PRODUCING, OR	8.2	Step or abutment ascending/
	ASSISTING IN THE PRODUCTION		desending type vehicle
	OF, LATERAL MOVEMENT OF THE	8.3	Wheel and stepper type
	VEHICLE (E.G., FOR PARKING)	8.4	Nonsupporting pusher type
200	.Comprising rotatably driven		stepper
	auxiliary wheel or endless	8.5	With alternately lifted
	track		supporting base and leg
201	Driven by frictional engagement	8.6	With alternately lifted feet or
	with tire of vehicle traction		skid
	wheel	8.7	Endless or rotary type
202	Driven by auxiliary electric or	9	.Portable track
	fluid motor	9.1	Endless, flexible
203	.Comprising reciprocably driven	9.21	Track substituted for drive
	stepper or rotatably driven	0.00	wheel
	cam	9.22	Guided by walking attendant
204	WITH DEVICE FOR PROGRAMMABLY	9.23	With attendant station
	OPERATING VEHICLE'S STEERABLE	9.25	Rider straddles vehicle
	WHEELS	0.06	(e.g., motorcycle)
6.2	STEERING BY DRIVING	9.26	Convertible from wheel type
6.24	.Combined with manual steering	9.28	Track remains with vehicle
6.26	Interlocked	9.3	Wheel or track contacts
6.28	Electrical		ground
6.3	Fluid	9.32	With auxiliary obstacle
6.32	Lever and/or linkage	0 24	surmounting means
6.34	With controller cam	9.34	With ground wheel
6.36	Lost motion type	9.36	Opposite and laterally spaced
6.38	Geared	9.38	Steering
6.4	With flexible and/or	9.4	With hitch
	yieldable link	9.42	Combined
6.44	.Auxiliary steering motor	9.44	With track-related steering means

9.46	Pivoted track frame	24.09	With interaxle differential
9.48	Laterally extendable track	24.1	With drive interrupt means to
9.5	Track support mounted for		either tandem drive wheel
	vertical movement	24.11	Driven tandem wheels
9.52	Adjustable	24.12	One serially driven by other
9.54	With spring	24.13	Spring rocker beam
9.56	<pre>Longitudinally extending coil spring</pre>	205.1	.Rider propulsion with additional source of power, e.g.,
9.58	Leaf or torsion spring		combustion engine or electric
9.6	Transversely extending		motor(IPC)
9.62	Toothed wheel drive	205.2	Rider propelled cycle with
9.64	Belt or chain driven		auxiliary combustion
10	Annular		engine(IPC)
11	MOTOR-CARRYING ATTACHMENTS	205.3	Control or actuating device
12	.Driven steering wheel type		therefore; Arrangement
13	Single wheel		thereof(IPC)
14.1	VEHICLE TRAINS	205.4	Power driven at crank
14.2	.Motorized trailer		shaft(IPC)
14.3	All motors supplied from power	205.5	Power driven at axle(IPC)
	plant of a single vehicle	205.6	Power driven at endless
14.4	.Drive means betwen vehicles		flexible drive member, e.g.,
	through coupling	005 5	chain(IPC)
14.6	.Tractor drive effort varied by	205.7	Power driven by friction
	pull exerted by trailer		roller or gear engaging the
14.7	.Vehicle drive drives other	006 1	ground wheel (IPC)
	vehicle wheel	206.1	Rider propelled cycle with
14.5	.Overload release	206.0	auxiliary electric motor(IPC)
15	ADDITIONAL TRACTION WHEEL	206.2	Control or actuating device
16	TRACTION WHEEL ATTACHMENTS	206.2	therefore(IPC)
19.1	STEERED BY WALKING ATTENDANT	206.3	Characterized by detector or
19.2	.Who steerably controls steerable		<pre>sensor; Arrangement thereof(IPC)</pre>
	wheel	206.4	Power driven at crank
19.3	.Handle movement controls vehicle	200.4	shaft(IPC)
	drive	206.5	Power driven at axle(IPC)
20	WITH ROLLERS	206.5	With axle driving shaft
21	SPECIAL WHEEL BASE	200.0	arranged coaxially with motor
22	.Five or more wheels		output shaft(IPC)
23	Driven steering wheel type	206.7	Power driven at endless
24	Stub-axle type	200.7	flexible drive member, e.g.,
24.01	Harrison bondon aboundals and		
	Having tandem steerable or		
	translatable wheels or wheel	206.8	chain(IPC)
		206.8	<pre>chain(IPC)Power driven by friction</pre>
24.02	translatable wheels or wheel	206.8	<pre>chain(IPC)Power driven by friction roller or gear engaging the</pre>
24.02	translatable wheels or wheel sets		<pre>chain(IPC)Power driven by friction roller or gear engaging the ground wheel(IPC)</pre>
24.02	translatable wheels or wheel setsDisplaceable wheel shifts or proportions loadIndependently rotatable side-	206.8	<pre>chain(IPC)Power driven by friction roller or gear engaging the ground wheel(IPC)Accessories; Arrangement</pre>
24.03	translatable wheels or wheel setsDisplaceable wheel shifts or proportions load		<pre>chain(IPC)Power driven by friction roller or gear engaging the ground wheel(IPC)Accessories; Arrangement thereof(IPC)</pre>
	translatable wheels or wheel setsDisplaceable wheel shifts or proportions loadIndependently rotatable side-by-side dual wheelsWith differential housing	207.1	<pre>chain(IPC)Power driven by friction roller or gear engaging the ground wheel(IPC)Accessories; Arrangement thereof(IPC)Solar cell; Arrangement</pre>
24.03	translatable wheels or wheel setsDisplaceable wheel shifts or proportions loadIndependently rotatable side-by-side dual wheels	207.1	<pre>chain(IPC)Power driven by friction roller or gear engaging the ground wheel(IPC)Accessories; Arrangement thereof(IPC)Solar cell; Arrangement thereof(IPC)Battery; Arrangement</pre>
24.03	translatable wheels or wheel setsDisplaceable wheel shifts or proportions loadIndependently rotatable side- by-side dual wheelsWith differential housing integrally fixed to vehicle	207.1 207.2 207.3	<pre>chain(IPC)Power driven by friction roller or gear engaging the ground wheel(IPC)Accessories; Arrangement thereof(IPC)Solar cell; Arrangement thereof(IPC)Battery; Arrangement thereof(IPC)</pre>
24.03 24.04	translatable wheels or wheel setsDisplaceable wheel shifts or proportions loadIndependently rotatable side- by-side dual wheelsWith differential housing integrally fixed to vehicle frame	207.1	<pre>chain(IPC)Power driven by friction roller or gear engaging the ground wheel(IPC)Accessories; Arrangement thereof(IPC)Solar cell; Arrangement thereof(IPC)Battery; Arrangement thereof(IPC)Battery; Arrangement thereof(IPC)</pre>
24.03 24.04 24.05	translatable wheels or wheel setsDisplaceable wheel shifts or proportions loadIndependently rotatable side-by-side dual wheelsWith differential housing integrally fixed to vehicle frameRocker beam houses drive means	207.1 207.2 207.3	<pre>chain(IPC)Power driven by friction roller or gear engaging the ground wheel(IPC)Accessories; Arrangement thereof(IPC)Solar cell; Arrangement thereof(IPC)Battery; Arrangement thereof(IPC)</pre>
24.03 24.04 24.05 24.06	translatable wheels or wheel setsDisplaceable wheel shifts or proportions loadIndependently rotatable side-by-side dual wheelsWith differential housing integrally fixed to vehicle frameRocker beam houses drive meansPlural propelling motors	207.1 207.2 207.3	<pre>chain(IPC)Power driven by friction roller or gear engaging the ground wheel(IPC)Accessories; Arrangement thereof(IPC)Solar cell; Arrangement thereof(IPC)Battery; Arrangement thereof(IPC)Battery; Arrangement thereof(IPC)</pre>

209	.With means for changing number of supporting wheels, or for adjusting relative location thereof.Having only three wheels	232	WITH MEANS FOR (1) PROTECTING MOTOR FROM IMPACT OF COLLISION, (2) UTILIZING MASS OF MOTOR TO ABSORB FORCE THEREOF, OR (3) PROTECTING
211	Including steerable and driven wheel		OCCUPANT REGION OF VEHICLE FROM IMPACT-INDUCED SHIFTING OF MOTOR
	All wheels motor driven	41	WITH LEVELING DEVICE
213	Having motor mounted to swing	233	
	with steerable wheel		HAVING FOUR WHEELS DRIVEN
214	Electrical-type motor	234	.With means for steering all
215	Including two wheels driven and	005	driven wheels
	having common axis of rotation	235	Comprising articulated frame
216	Electrical-type motor		and means for pivoting one
217	Including endless element for		portion of frame relative to
	transmitting drive to wheels		other portion about vertical
218	.Having only two wheels		axis located centrally of
219	Arranged in tandem		vehicle
220	Electrical-type motor	236	In a path of travel other than
221	Including rotating element for		that produced by turning the
	frictionally engaging and		front wheels and the rear
	driving a wheel		wheels substantially equally
222	And means for steering that	005	and oppositely
	wheel	237	Comprising swingable, plural-
223	Including steerable and driven wheel		wheel-carrying axles on individual, vertical axes of
224			pivot
	Both wheels motor driven	238	At least one axle being offset
225	Having frame element or fender		from its pivotable axis
	constituting also exhaust or	239	Including longitudinally
	fuel passageway or fuel reservoir		extending, endless element for
226			transmitting drive to wheels
220	Including longitudinally extending shaft for	240	Including rotatable shaft
	transmitting drive to wheel		extending longitudinally from
227	Including resilient means for		wheels at one end of vehicle
221	5		to wheels at other end for
220	mounting driven wheel		transmitting steering force
228	Including resilient means for		thereto
220	mounting motor	241	Including longitudinally
229	With means for cooling motor		extending, endless element for
230	With change-speed means		transmitting drive to wheels
0.2.1	between motor and driven wheel	242	.Including pump and fluid motor,
231	Including endless element for		or generator and electric
	transmitting drive and means		motor, for driving one or more
	for adjusting tension of		wheels
2.6	element	243	And another means for driving
36	STEAM TRACTION ENGINES		the remaining driven wheels
37	.Driven steering wheel type	244	.With means for braking either
38	Four wheels driven		(1) one or more driven wheels
39	.With boiler leveler		or (2) structure transmitting
40	.Spring mounted on axle		drive to wheel
		245	.Including separate mechanical assemblies for transmitting drive to each of two wheels at
			one end of vehicle

246			
240	And assemblies for each of two wheels at other end, also	262	Joint also includes gear element on fixed portion
247	.With manually operated means for disengaging drive to one or more, but fewer than all, of		engaging gear element on axis of pivot and vertically offset from gear element on pivotable
	the four wheels		portion
248	.With differential means for driving two wheel sets at dissimilar speeds	263	Having axis of pivot disposed between parallel planes defined by opposite sides of
249	And means for locking out the differential means	264	wheel .With driven axle, mounting two
250	Manually operated type of lockout means		or more wheels, swingable about axis of pivot, and motor mounted to swing therewith
251	.Including longitudinally	265	<u> </u>
	extending, endless element for transmitting drive to wheels	265	Having axle offset longitudinally from axis of
252	HAVING AT LEAST ONE WHEEL BOTH		pivot
	DRIVEN AND STEERABLE	266	.With driven axle, mounting two
253	<pre>.Steerable wheel has exclusive axis of pivot (i.e., stub-axle type)</pre>		or more wheels, swingable about axis of pivot, and swingable also about a
254	Including flexible, axially		horizontal axis
	rotatable means having one	267	.With driven axle, mounting two
	portion fixed to vehicle and		or more wheels, swingable
	another portion pivotable with		about axis of pivot, and shaft
	wheel for transmitting drive		for transmitting drive
	thereto		coincident with axis
255	Pivotable portion of means has	268	WITH BELT OR HARNESS FOR
	additional structure of		RESTRAINING OCCUPANT, AND
	gearlike nature in driving		MEANS WHEREBY THE BELT OR
	engagement with corresponding		HARNESS CONTROLS, OR IS
	structure on wheel		CONTROLLED BY, THE FUNCTIONING
256			
200	Means comprises rotatable		OF A VEHICLE SYSTEM OR
230	Means comprises rotatable shaft containing plural	0.60	COMPONENT
230	-	269	COMPONENT .System comprises transmission or
257	shaft containing plural		COMPONENT .System comprises transmission or element thereof
	shaft containing plural universal joints	269 270	COMPONENT .System comprises transmission or element thereof .System comprises ignition
257	shaft containing plural universal jointsHaving at least one joint		COMPONENT . System comprises transmission or element thereof . System comprises ignition circuit or starter circuit or
	shaft containing plural universal jointsHaving at least one joint located on each side of axis of pivotPivotable portion of means	270	COMPONENT . System comprises transmission or element thereof . System comprises ignition circuit or starter circuit or element of one or other
257	shaft containing plural universal jointsHaving at least one joint located on each side of axis of pivot		COMPONENT . System comprises transmission or element thereof . System comprises ignition circuit or starter circuit or element of one or other WITH MEANS FOR PROMOTING SAFETY
257	shaft containing plural universal jointsHaving at least one joint located on each side of axis of pivotPivotable portion of means includes ball or socket element of ball-and socket	270	COMPONENT . System comprises transmission or element thereof . System comprises ignition circuit or starter circuit or element of one or other WITH MEANS FOR PROMOTING SAFETY OF VEHICLE, ITS OCCUPANT OR
257	shaft containing plural universal jointsHaving at least one joint located on each side of axis of pivotPivotable portion of means includes ball or socket	270 271	COMPONENT . System comprises transmission or element thereof . System comprises ignition circuit or starter circuit or element of one or other WITH MEANS FOR PROMOTING SAFETY OF VEHICLE, ITS OCCUPANT OR LOAD, OR AN EXTERNAL OBJECT
257	shaft containing plural universal jointsHaving at least one joint located on each side of axis of pivotPivotable portion of means includes ball or socket element of ball-and socket	270	COMPONENT . System comprises transmission or element thereof . System comprises ignition circuit or starter circuit or element of one or other WITH MEANS FOR PROMOTING SAFETY OF VEHICLE, ITS OCCUPANT OR LOAD, OR AN EXTERNAL OBJECT .Responsive to absence or
257	shaft containing plural universal jointsHaving at least one joint located on each side of axis of pivotPivotable portion of means includes ball or socket element of ball-and socket type universal joint	270 271	COMPONENT . System comprises transmission or element thereof . System comprises ignition circuit or starter circuit or element of one or other WITH MEANS FOR PROMOTING SAFETY OF VEHICLE, ITS OCCUPANT OR LOAD, OR AN EXTERNAL OBJECT . Responsive to absence or inattention of operator, or
257	shaft containing plural universal jointsHaving at least one joint located on each side of axis of pivotPivotable portion of means includes ball or socket element of ball-and socket type universal jointJoint includes intermediate	270 271	COMPONENT . System comprises transmission or element thereof . System comprises ignition circuit or starter circuit or element of one or other WITH MEANS FOR PROMOTING SAFETY OF VEHICLE, ITS OCCUPANT OR LOAD, OR AN EXTERNAL OBJECT . Responsive to absence or inattention of operator, or negatively reactive to attempt
257 258 259	shaft containing plural universal jointsHaving at least one joint located on each side of axis of pivotPivotable portion of means includes ball or socket element of ball-and socket type universal jointJoint includes intermediate ball, floating in groove, for	270 271	COMPONENT . System comprises transmission or element thereof . System comprises ignition circuit or starter circuit or element of one or other WITH MEANS FOR PROMOTING SAFETY OF VEHICLE, ITS OCCUPANT OR LOAD, OR AN EXTERNAL OBJECT . Responsive to absence or inattention of operator, or negatively reactive to attempt to operate vehicle by person
257	shaft containing plural universal jointsHaving at least one joint located on each side of axis of pivotPivotable portion of means includes ball or socket element of ball-and socket type universal jointJoint includes intermediate ball, floating in groove, for positively engaging ball with socketPivotable portion of means	270 271	COMPONENT . System comprises transmission or element thereof . System comprises ignition circuit or starter circuit or element of one or other WITH MEANS FOR PROMOTING SAFETY OF VEHICLE, ITS OCCUPANT OR LOAD, OR AN EXTERNAL OBJECT . Responsive to absence or inattention of operator, or negatively reactive to attempt to operate vehicle by person not qualified mentally or
257 258 259	shaft containing plural universal jointsHaving at least one joint located on each side of axis of pivotPivotable portion of means includes ball or socket element of ball-and socket type universal jointJoint includes intermediate ball, floating in groove, for positively engaging ball with socketPivotable portion of means includes gear element of	270 271 272	COMPONENT . System comprises transmission or element thereof . System comprises ignition circuit or starter circuit or element of one or other WITH MEANS FOR PROMOTING SAFETY OF VEHICLE, ITS OCCUPANT OR LOAD, OR AN EXTERNAL OBJECT . Responsive to absence or inattention of operator, or negatively reactive to attempt to operate vehicle by person not qualified mentally or physically to do so
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257 258 259 260	shaft containing plural universal jointsHaving at least one joint located on each side of axis of pivotPivotable portion of means includes ball or socket element of ball-and socket type universal jointJoint includes intermediate ball, floating in groove, for positively engaging ball with socketPivotable portion of means includes gear element of intermeshing gear type universal joint	270 271 272	COMPONENT . System comprises transmission or element thereof . System comprises ignition circuit or starter circuit or element of one or other WITH MEANS FOR PROMOTING SAFETY OF VEHICLE, ITS OCCUPANT OR LOAD, OR AN EXTERNAL OBJECT . Responsive to absence or inattention of operator, or negatively reactive to attempt to operate vehicle by person not qualified mentally or physically to do so . Utilizing weight, or lack thereof, of operator on seat
257 258 259	shaft containing plural universal jointsHaving at least one joint located on each side of axis of pivotPivotable portion of means includes ball or socket element of ball-and socket type universal jointJoint includes intermediate ball, floating in groove, for positively engaging ball with socketPivotable portion of means includes gear element of intermeshing gear type universal jointJoint includes at least one	270 271 272	COMPONENT . System comprises transmission or element thereof . System comprises ignition circuit or starter circuit or element of one or other WITH MEANS FOR PROMOTING SAFETY OF VEHICLE, ITS OCCUPANT OR LOAD, OR AN EXTERNAL OBJECT . Responsive to absence or inattention of operator, or negatively reactive to attempt to operate vehicle by person not qualified mentally or physically to do so . Utilizing weight, or lack thereof, of operator on seat or other support to determine
257 258 259 260	shaft containing plural universal jointsHaving at least one joint located on each side of axis of pivotPivotable portion of means includes ball or socket element of ball-and socket type universal jointJoint includes intermediate ball, floating in groove, for positively engaging ball with socketPivotable portion of means includes gear element of intermeshing gear type universal jointJoint includes at least one gear element rotatable on axis	270271272273	COMPONENT . System comprises transmission or element thereof . System comprises ignition circuit or starter circuit or element of one or other WITH MEANS FOR PROMOTING SAFETY OF VEHICLE, ITS OCCUPANT OR LOAD, OR AN EXTERNAL OBJECT . Responsive to absence or inattention of operator, or negatively reactive to attempt to operate vehicle by person not qualified mentally or physically to do so . Utilizing weight, or lack thereof, of operator on seat or other support to determine presence or absence
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257 258 259 260	shaft containing plural universal jointsHaving at least one joint located on each side of axis of pivotPivotable portion of means includes ball or socket element of ball-and socket type universal jointJoint includes intermediate ball, floating in groove, for positively engaging ball with socketPivotable portion of means includes gear element of intermeshing gear type universal jointJoint includes at least one gear element rotatable on axis of pivot and intermeshing with gear element on pivotable	270271272273	COMPONENT .System comprises transmission or element thereof .System comprises ignition circuit or starter circuit or element of one or other WITH MEANS FOR PROMOTING SAFETY OF VEHICLE, ITS OCCUPANT OR LOAD, OR AN EXTERNAL OBJECT .Responsive to absence or inattention of operator, or negatively reactive to attempt to operate vehicle by person not qualified mentally or physically to do soUtilizing weight, or lack thereof, of operator on seat or other support to determine presence or absence .Responsive to engagement of portion of perimeter of
257 258 259 260	shaft containing plural universal jointsHaving at least one joint located on each side of axis of pivotPivotable portion of means includes ball or socket element of ball-and socket type universal jointJoint includes intermediate ball, floating in groove, for positively engaging ball with socketPivotable portion of means includes gear element of intermeshing gear type universal jointJoint includes at least one gear element rotatable on axis of pivot and intermeshing with	270271272273	COMPONENT . System comprises transmission or element thereof . System comprises ignition circuit or starter circuit or element of one or other WITH MEANS FOR PROMOTING SAFETY OF VEHICLE, ITS OCCUPANT OR LOAD, OR AN EXTERNAL OBJECT . Responsive to absence or inattention of operator, or negatively reactive to attempt to operate vehicle by person not qualified mentally or physically to do so . Utilizing weight, or lack thereof, of operator on seat or other support to determine presence or absence . Responsive to engagement of

275	And causing application of	53.5	.Electric drive to other machine
276	vehicle brakeBrake comprises or includes	53.6	.Drive to other machine by power take-off (PTO) driven by wheel
	element moved or deformed into	F2 C1	or axle of motor vehicle
277	engagement with groundAnd also interruption of at	53.61	PTO mounted directly on or engaging drive wheel to rotate
	least one operational system of the vehicle or its motor	53.62	therewithPTO constantly driven with
278	System comprises clutch	33.02	wheel selectively driven
279	And causing interruption of an electrical system of the vehicle or its motor	53.7	.Drive to other machine by power take-off (PTO) at front end of vehicle
280	And causing operation of vehicle steering system	53.8	.Other machine is vehicle accessory
281	.Comprising either movable	54.1	POWER
	closure member or fastening	54.2	.With spring powered motor
	device therefor responsive to	55	.On lower running gear
	forward or rearward movement,	56	Rear axle and body
	or variations therein, of	57	Longitudinal shaft
	vehicle	58	Frame
282	.Responsive to sensing of	59	Pivoted support on axle
	acceleration, deceleration, or	60	Electric
	tilt of vehicle	61	Pivoted support on axle
283	And causing interruption of	62	Rear axle
	ignition circuit	63	.Motor moved by axle
284	And also impeding flow of fuel	291	.Having specific motor-to-body-
285	And causing disruption of drive train between motor and wheels	292	frame relationshipIncluding change-speed gearing,
286	.Comprising vehicle system or component responsive either to	232	or clutch, mounted in common with motor
	position of movable closure	293	With member or mechanism for
	member or to status of fastening device therefor		controlling gearing or clutch,
287	.By preventing unauthorized or		and means for minimizing
	unintended access or use		transfer of movement, caused by operation of motor, to
288	Reponsive to failure of taxicab		member or mechanism
	operator to activate fare	294	With means enabling
	meter upon boarding of	231	repositioning of motor and
	passenger		gearing or clutch
289	Comprising device, mechanism,	295	With wheeled auxiliary frame,
	or system for either		resiliently joined to body
	repositioning a movable or		frame, for supporting motor
	removable closure member or		and gearing or clutch
	operating a fastening device therefor	296	Including means on body frame
290	Responsive to weight of cargo		or motor for handling exhaust
250	load transported by vehicle	297	Having motor shaft parallel to
53.1	MOTOR AS SOURCE OF POWER FOR		rotational axis of driven
	OTHER MACHINE	200	wheel
53.2	.Other machine is creeper drive	298	Including means enabling repositioning of motor
	on motor vehicle	299	Including auxiliary frame for
53.3	.Other machine is mounted by	= ='	motor and resilient means for
	three point hitch (i.e., Ford-		connecting auxiliary frame to
F0 4	Ferguson hitch)		body frame
53.4	.Hydraulic drive to other machine		

300	Including means of nonsupporting nature for minimizing operation-induced movement of motor	305	.Including traction motor of kind driven by noncompressible fluid received under pressure from a pump
65.1 65.21	.ElectricHybrid vehicle (IPC)	306	Vehicle includes another system operated by same fluid
65.22	Specific vehicle architecture (IPC)	307	Having variable displacement type motor or pump
65.225 65.23 65.235	Series and parallel (IPC)Switching type (IPC)Differential gearing type	308	Having separate motor for each driven, surface-engaging member
65.24	(IPC)Electrical distribution type	309	.With means for handling motor exhaust
	(IPC)	310	.With means to generate steam for a propulsion purpose
65.245 65.25	Series (IPC)	68.1	.With means to guide and/or
65.26	Parallel (IPC)Motor assist (IPC)	00.1	control air for power plant
65.265	Control of multiple systems	68.2	With further means to utilize
65.27	specific to hybrid operationControl of external device in	00.2	power plant cooling air for other purposes
	conjunction with specific hybrid function	68.3	.With means to guide and/or
65.275	Control of individual subunit specific to hybrid operation		control combustion air for power plant
65.28	Control of engine specific to	68.4	.Radiators and condensers,
03.20	hybrid operation		mounting
65.285	Control of motor or generator	68.6	With protector for the radiator
03.203	specific to hybrid operation		or condenser
65.29	Control of battery specific	68.5	.Battery mountings and holders
	to hybrid operation	69.2	.Hoods
65.31	With means on vehicle for	69.21	Pivoted about horizontal axis
	generating power for the		extending transversely of
	electric motor		vehicle (e.g., alligator type
65.51	With motor in or moveable with	69.22	or front end pivot)
c= c	wheel	69.22	With noise suppression meansNoise suppression means
65.6	With gearing between electric	07.23	prevents hood from vribrating
65.7	motor and drive wheelGearing is a changeable ratio		(i.e., anti rattlers)
03.7	gearing is a changeable racto	69.24	With access openings having
65.8	With electronic devices (logic		moveable or removeable closures
	gates, semi-conductors, vacuum	69.25	Water deflectors
	tubes, etc.) in control	69.23	.Water deflectors .With means to increase idle
301	circuit .Including traction motor of	07.5	speed of internal combustion
301	turbine type driven by fluid product of combustion		engine to compensate for accessory load
302	.Including traction motor of kind	69.4	.With fuel supply for internal
302	driven by expansible fluid	69.5	combustion engineEngine uses gaseous fuel
202	from source external of motor	69.6	.Vehicle has plural power plants
303	Gas is product of treatment of	69.1	.Vehicle has plural power plants .Underpans
	a volatile fluid (e.g., gas is steam)	337	TRANSMISSION MECHANISM
304	With means to condense gas	338	.Condition responsive (e.g.,
	discharged from motor		responsive to speed, load, etc.)

339	With temperature gentral	383	With portionlar drive goupling
339	.With temperature control, lubrication or sealing	384	.With particular drive couplingRelative axial movement
340	.With laterally movable wheel	385	
341	_	365 76	Drive connection to wheel
341	.Wheel drives parallel wheel	-	COMPENSATING DEVICES
343	Tire directly driven	314	WITH PLURAL FUEL TANKS
	With particular gear structure	315	MANUALLY ACTUATED CONTROLLING
344	Assembly feature	216	DEVICES
345	.Traction aid	316	.By other than hand or foot of
346	.With protective guard or casing	245	operator
347	.Mechanical movement transmission	317	On mine car vehicle
348	.Final drive axle movable	318	.On delivery-type vehicle
349	Rigid axle	319	.With rein means
350	Belt or chain drive	320	.With vehicle control extension
351	With tensioning means	321	.With plural control stations
352	With lateral support between	322	Side-by-side
	the differential or axle	323	For single control means
	housing and the vehicle frame	324	With tool or equipment control
353	With sprung differential	325	Braking controllable by
354	And differential support		passenger
	feature	326	.With movable control station or
355	And final gear drive		seat position
356	And final gear drive	327	Movable cab
357	Belt or chain drive	328	Tilting
358	Swinging axle, single pivot	329	Simultaneously movable seat and
359	With sprung differential		control
360	And differential support	330	Seat on seat portion movable to
	feature		alternate positon
361	And final gear drive	331	With tool or equipment control
362	And transverse leaf spring	332	.With tiller-type handle
	suspension	333	.Multiple vehicle functions
363	And final gear drive		controllable by single device
364	.Variable speed or direction	334	.With adjustable operator
365	Plural		engageable control
366	Belt or chain	335	.With fuel or air throttle
367	Fluid drive		control
368	Friction drive	336	.With transmission control
369	Planetary	78	.Steering shaft
370	.With brake	400	STEERING GEAR
371	.Final gear drive at each of two	401	.Steering by terrestrial guide
371	parallel wheels	402	.No mechanical connection between
372	_	402	steering shaft and steering
372	PlanetaryBelt or chain		gear
		403	Hydraulic
374	.Gear transmission relationship	404	. Power assist alarms or disablers
275	to frame or axle	404	
375	Transmission is differential	403	.With alternate emergency power
376	.Shaft relationship to frame or		means (e.g., pump, gearing,
0.00	shaft	106	etc.)
377	.Transmission support	406	With fluid backup
378	Differential or axle housing	407	With electrical backup
379	Shaft	408	.Each wheel steerable
380	With propeller shaft casing,	409	Occupant steered
	(e.g., torque tube)	410	With condition modulated
381	Vibration damping		steering
382	Flexible support		

411	Independently controlled	447	.With mechanical power assist
	steerable wheels	448	Swinging axle
412	With electric power assist	449	Bogie truck having more than
413	With electric power assist to		one axle
	all wheels	84	DUST GUARDS
414	With fluid power assist	89.1	BODIES
415	With electrical control	89.11	.With passenger compartment
416	With mechanical power assist		having article receiving or
417	.With fluid power assist		removing means
418	Between articulated wheeled	89.12	.Tractor and similar vehicle cabs
	vehicle sections	89.13	.Movable cab or operator's
419	Combined with another steering		station
	mode	89.14	Tilting
420	Reciprocating power assist	89.15	Via power or power enhancing
421	With condition modulated		means
	steering	89.16	Overmotor cab
422	With electrical control	89.17	.Movable body portion
423	Vehicle speed condition only		facilitating engine access
424	With swinging axle	89.18	Cab portion
425	Including flexible power	89.19	.Overmotor cab
	transmitting means	89.2	.With means for handling exhaust
426	Steering column supported		of a motor
427	Including rack gear means	90	.Dashboards
428	With rack and pinion gearing	90.6	.Footboards and pedal guards
	intermediate steering shaft	311	FRAME
	and power assist	312	.With structure adapted to
429	Having rotary working member		receive or support a motor,
430	Having flexible working member		change-speed gearing, or other
431	Steering linkage includes		power train element
	interengaging gear means	313	MISCELLANEOUS
432	With plural working members		
433	Working member movement		
	traverses vehicle path		
434	Working member movement	CROSS-I	REFERENCE ART COLLECTIONS
	traverses vehicle path		
435	Moves separate rod for each	900	ARGICULTURAL-TYPE TRACTORS
	wheel steering arm	901	DEVICES FOR TRAVERSING VERTICAL
436	Working member part engages		SURFACES
	wheel steering arm	902	SHOCK OR VIBRATION ABSORBING OR
437	Working member part engages		TRANSMITTING MEANS BETWEEN
	tie rod		WHEEL SUSPENSION AND MOTOR
438	Movable working member engages	903	AIRSTREAM REACTIVE VEHICLE OR
	wheel steering arm		VEHICLE STRUCTURE
439	Movable working member is a	904	TRACTION DOLLIES FOR AIRCRAFT
	moving cylinder		(Cross Reference Art
440	With linkage intermediate		Collection created in
	working member and wheel		companion project)
	steering arm	905	AXLES
441	Device to control pressure	906	ADJUSTABLE AXLES
	(e.g., valve)	907	MOTORIZED WHEELCHAIRS
442	Hydraulic circuit	908	MOTOR VEHICLES WITH SHORT
443	.With electric power assist		WHEELBASE
444	Specific mechanical feature		POWER (180/54.1)
445	Controlling rear wheels		.Electric (180/65.1)
446	Condition modulated		

FOREIGN ART COLLECTIONS

FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

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

FOR 100 ..Combined with nonelectric drive means (180/65.2)

FOR 101 ...Generating means is driven by a prime mover (180/65.4)

MAY 03, 2011

Source	Number	New	Number
Classification	of ORs	Classification	of ORs
180/205	129	180/207.3	1
		180/206.1	9
180/206	72	180/206.5	4
180/207	30	180/206.7	1
180/205	129	180/206.2	7
		180/206.4	10
		180/205.1	8
		180/205.4	16
180/206	72	180/205.4	4
180/205	129	180/206.5	21
		180/206.3	2
180/206	72	180/206.3	9
		180/205.2	4
180/207	30	180/205.2	1
180/206	72	180/206.1	3
		180/206.2	16
		180/206.7	3
180/207	30	180/205.5	1
180/205	129	280/250.1	1
180/206	72	180/206.4	16
180/205	129	180/205.3	5
180/207	30	180/205.4	11
		180/206.3	1

MAY 03, 2011

Source	Number	New	Number
Classification	of ORs	Classification	of ORs
180/205	129	180/206.6	3
180/206	72	180/220	2
180/205	129	180/206.7	5
180/206	72	180/206.8	2
180/207	30	180/206.8	1
		180/206.5	1
180/205	129	180/205.7	4
		180/205.2	16
180/207	30	180/206.4	3
180/206	72	180/205.3	1
		180/205.5	4
180/207	30	180/206.1	4
180/206	72	180/205.1	2
180/207	30	180/205.6	4
		180/206.2	2
180/205	129	180/206.8	5
		180/205.5	16
180/206	72	180/205.7	2

MAY 03, 2011

New	Number	Source	Number
Classification	of ORs	Classification	of ORs
180/205.1	2	180/206	72
	8	180/205	129
180/205.2	1	180/207	30
	4	180/206	72
	16	180/205	129
180/205.3	1	180/206	72
	5	180/205	129
180/205.4	4	180/206	72
	11	180/207	30
	16	180/205	129
180/205.5	1	180/207	30
	4	180/206	72
	16	180/205	129
180/205.6	4	180/207	30
180/205.7	2	180/206	72
	4	180/205	129
180/206.1	3	180/206	72
	4	180/207	30
	9	180/205	129
180/206.2	2	180/207	30
	7	180/205	129
	16	180/206	72
180/206.3	1	180/207	30

MAY 03, 2011

New	Number	Source	Number
Classification	of ORs	Classification	of ORs
	2	180/205	129
	9	180/206	72
180/206.4	3	180/207	30
	10	180/205	129
	16	180/206	72
180/206.5	1	180/207	30
	4	180/206	72
	21	180/205	129
180/206.6	3	180/205	129
180/206.7	1	180/207	30
	3	180/206	72
	5	180/205	129
180/206.8	1	180/207	30
	2	180/206	72
	5	180/205	129
180/207.3	1	180/205	129
180/220	2	180/206	72
280/250.1	1	180/205	129

MAY 03, 2011

PROJECT MB180

C. CHANGES TO THE USPC-TO-IPC CONCORDANCE

	<u>USPC</u>	<u>IPC</u>	
Class	Subclass	<u>Subclass</u>	Notation
180	205.1	B62M	6/00
	205.2		6/10
	205.3		6/15
	205.4		6/20
	205.5		6/25
	205.6		6/30
	205.7		6/35
	206.1		6/40
	206.2		6/45
	206.3		6/50
	206.4		6/55
	206.5		6/60
	206.6		6/65
	206.7		6/70
	206.8		6/75
	207.1		6/80
	207.2		6/85
	207.3		6/90

CLASS 180 - MOTOR VEHICLES

Definitions Abolished:

205 - 207

Definitions Established:

205.1 Rider propulsion with additional source of power, e.g., combustion engine or electric motor (IPC):

This subclass is indented under the subclass 21. Subject matter related to a rider propelled cycle, e.g., bicycle, tricycle having an additional source of power, and the use of an additional source of power of a rider propelled cycle, and a rider propelled cycle with an additional source of propulsion power different from a combustion engine or electric motor.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 210, for nonoccupant propelled cycles having three wheels.
- 218, 228 and 291, for a motorcycle having particular positioning of a motor or engine.
- and 65.21, for a transmission characterized by two or more dissimilar sources of power, e.g., transmission for hybrid cycles.
- 65.1, and 907, for a motorized wheelchair.

SEE OR SEARCH CLASS:

- 280, Land Vehicles, subclass 281.1 for engine or motor driven cycle frames, steering wheel forks or handles bars.
- 476, Friction Gear transmission Systems or Components, subclass 65 for particular transmission details of a friction roller which engages a cycle ground wheel.

205.2 Rider propelled cycle with auxiliary combustion engine (IPC):

This subclass is indented under subclass 205.1. Subject matter related to a cycle propelled by a rider further having a combustion engine as an additional source of power in order to propel the cycle.

205.3 Control or actuating device therefore; arrangement thereof (IPC):

This subclass is indented under the subclass 205.2. Subject matter related to means, specifically adapted for application on a rider propelled cycle, for controlling the delivery of power to the cycle by sensing or detecting a parameter, e.g., rider pedaling force, torque, speed or braking force, and controlling the combustion engine output torque to the cycle, and the particular arrangement of a sensor or a detector on a cycle.

205.4 Power driven at crank shaft (IPC):

This subclass is indented under subclass 205.2. Subject matter related to a rider propelled cycle where the power output of the combustion engine is transmitted to the pedal crank shaft through a power transmission arrangement at the pedal crank shaft.

205.5 Power driven at axle (IPC):

This subclass is indented under subclass 205.2. Subject matter related to a rider propelled cycle where the power output of the combustion engine is transmitted to a wheel axle shaft through a power transmission arrangement at the wheel axle shaft.

205.6 Power driven at endless flexible drive member, e.g., chain (IPC):

This subclass is indented under subclass 205.2. Subject matter related to a rider propelled cycle where the power output of the combustion engine is transmitted to an endless flexible member which connects the wheel axle shaft to the pedal shaft.

205.7 Power driven by friction roller or gear engaging the ground wheel (IPC):

This subclass is indented under subclass 205.2. Subject matter related to a rider propelled cycle where the power output of the combustion engine is transmitted to a periphery or side of the ground or road wheel through a power transmission arrangement which includes a friction or pressure roller or gear.

206.1 Rider propelled cycle with auxiliary electric motor (IPC):

This subclass is indented under subclass 205.1 Subject matter related to a cycle propelled by a rider further having an electric motor as an additional source of power in order to propel the cycle.

206.2 Control or actuating device therefore (IPC):

This subclass is indented under the subclass 206.1. Subject matter related to means, specially adapted for application on a rider propelled cycle, for controlling the delivery of power to the cycle by sensing or detecting a parameter, e.g., rider pedaling force, torque, speed or braking force and controlling the output torque to the cycle.

206.3 Characterized by detector or sensor; arrangement thereof (IPC):

This subclass is indented under the subclass 206.2. Subject matter related to a sensing device or detector specially adapted for the application on the cycle for sensing or detecting control parameters, e.g., rider pedaling force, torque, speed or braking force, or the arrangement or the specific location of a detector or sensor on a cycle.

206.4 Power driven at crank shaft (IPC):

This subclass is indented under subclass 206.1. Subject matter related to a rider propelled cycle where the power output of the electric motor is transmitted to the pedal crank shaft through a power transmission arrangement at the pedal crank shaft.

206.5 Power driven at axle (IPC):

This subclass is indented under the subclass 206.1. Subject matter related to a rider propelled cycle where the power output of electric motor is transmitted to the wheel axle shaft through a power transmission arrangement at the wheel axle shaft.

206.6 With axle driving shaft arranged coaxially with motor output shaft (IPC):

This subclass is indented under subclass 206.5. Subject matter related to a rider propelled cycle where the power output of the electric motor is transmitted to the wheel axle shaft through a power transmission arrangement at the wheel axle shaft, with the motor output shaft being coaxial with the driven wheel axle shaft.

206.7 Power driven at endless flexible drive member, e.g., chain (IPC):

This subclass is indented under subclass 206.1. Subject matter related to a rider propelled cycle where the power output of the electric motor is transmitted to the flexible member which connects the wheel axle shaft to the pedal shaft.

206.8 Power driven by friction roller or gear engaging the ground wheel (IPC):

This subclass is indented under subclass 206.1. Subject matter related to a rider propelled cycle where the power output of the electric motor is transmitted to the periphery or the side of the ground or road wheel through a power transmission arrangement which includes a friction or pressure roller or gear.

207.1 Accessories; arrangement thereof (IPC):

This subclass is indented under subclass 205.1. Subject matter related to auxiliary equipment or an accessory, e.g., battery or fuel cell feeding the electric motor or device having special feature considered specially adapted for the application on a power assisted cycle, e.g., cooling system specially adapted for the auxiliary electric motor or the location or arrangement of the accessory on the cycle.

207.2 Solar cell; arrangement thereof (IPC):

This subclass is indented under subclass 207.1. Subject matter related to a solar cell on a rider propelled cycle providing a power source to a battery or electric propulsion motor or the arrangement of a solar cell on the cycle.

SEE OR SEARCH CLASS:

136, Batteries: Thermoelectric or Photoelectric, subclass 252 for particular detail to a photoelectric cell.

207.3 Battery; arrangement thereof (IPC):

This subclass is indented under the subclass 207.1. Subject matter related to a battery on a rider propelled cycle providing a power source for the electric propulsion motor or the arrangement of a battery on the cycle.

SEE OR SEARCH CLASS:

- 320, Electricity: Battery or Capacitor Charging or Discharging, subclass 137 for particular battery cell charging.
- 429, Chemistry: Electrical Current Producing Apparatus, Product, And Process, subclass 100 for a support for a battery having particular battery detail.