The following classification changes will be effected by this order:

<table>
<thead>
<tr>
<th>Class</th>
<th>Subclass</th>
<th>Art Unit</th>
<th>Ex’r Search Room</th>
</tr>
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<tbody>
<tr>
<td>Abolished:</td>
<td>180 205-207</td>
<td>3616</td>
<td>OS0001</td>
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| 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
CLASSIFICATION ORDER 1909

MAY 03, 2011

PROJECT MB180

Project Leader(s): George Spisich
Examiner : Kevin Hurley
Editor(s): Varona Stevens
Publications Specialist(s): Yvonne Smith
WITH POWERED MEANS FOR CREATING FLUID FORCE TO ATTRACT VEHICLE TO SURFACE OF TRAVEL

SURFACE EFFECT VEHICLES (I.E., GROUND EFFECT MACHINES)

Having propulsion or control means..Responsive to instability condition..Surface contacting control..Integrated with working fluid...With plural cushions...With dynamic seal or fluid curtain..Spray deflector..Expansible chamber..Fluid bearing or fluid pad..Rigid side walls..Flexible skirt..Having outlet for working fluid..Dynamic seal or fluid curtain

WITH FLUID OR MECHANICAL MEANS TO ACCUMULATE ENERGY (I) DERIVED FROM MOTION OF VEHICLE OR (II) OBTAINED FROM OPERATION OF VEHICLE MOTOR, AND GIVE UP THE ENERGY (1) WHEN NEEDED FOR VEHICLE ACCELERATION OR (2) TO POWER AN AUXILIARY SYSTEM OF THE VEHICLE

WHEELED INFANT CARRIAGE OR CRIB

WITH DRIVEN MEANS FOR RECIPROCATING IT LONGITUDINALLY

MOTOR SUPPLIED WITH POWER FROM EXTERNAL SOURCE

Source comprises or includes energy derived from force of nature (e.g., sun, wind)

WITH MEANS FOR CONTROLLING OPERATION RESPONSIVE TO ELECTROMAGNETIC RADIATION, MAGNETIC FORCE, OR SOUND WAVES RECEIVED FROM SOURCE, OR REFLECTED FROM OBJECT OR SURFACE, LOCATED APART FROM VEHICLE

Having controlling means adapted to interact with stationary means which describes course of vehicle's travel

.Radiation, force, or waves reflected from external object or surface

WITH MEANS RESPONSIVE TO SPEED OF VEHICLE FOR MAINTAINING SPEED AT, OR PREVENTING IT FROM EXCEEDING, A PARTICULAR VALUE

Including device to signal to operator existence of unusual or unintended speed..Including device responsive to centrifugal force..And means to prevent tampering or unauthorized use..Having electrical switch..Including fluid pressure actuated servomechanism..And electrical quantities comparison means for development of input pressure..And one or more electrical components for establishing or regulating input pressure..Including electrically actuated servomechanism..And electrical quantities comparison means for development of electrical input

SKI- OR SKATE-TYPE VEHICLE FOR IMPARTING MOVEMENT TO A PERSON STANDING THEREON

.With power means or a portion thereof affixed to or built into the ski or skate

INCLUDING ONE OR MORE SKI-LIKE OR RUNNER MEMBERS

.Member substitutable for wheel type support structure..With propulsion element of endless track type..Track comprises substitute for or addition to propulsion element of traction wheel type..With at least one surface-engaging propulsion element..Element shuffles along support surface..Spiral type element..Plural elements connected to and spaced along the plural throws of a common crankshaft..Endless track type element..Protruding from member
...Plural tracks with interconnected drive or support means

...With vertically movable track support located intermediate the forward and rearward extremities of the track

...Plural discrete elements protruding from a wheel, hub, or shaft

...Each element moves relative to wheel, hub, or shaft

...Element comprises traction wheel

WITH MEANS FOR DETECTING WHEEL SLIP DURING VEHICLE ACCELERATION AND CONTROLLING IT BY REDUCING APPLICATION OF POWER TO WHEEL

PORTABLE CARRIER SUPPORTS MOTOR VEHICLE IN TOTO AND IS PROPELLED THEREBY

WITH POWERED, GROUND-ENGAGING MEANS FOR PRODUCING, OR ASSISTING IN THE PRODUCTION OF, LATERAL MOVEMENT OF THE VEHICLE (E.G., FOR PARKING)

Comprising rotatably driven auxiliary wheel or endless track

Driven by frictional engagement with tire of vehicle traction wheel

Driven by auxiliary electric or fluid motor

Comprising reciprocably driven stepper or rotatably driven cam

WITH DEVICE FOR PROGRAMMABLY OPERATING VEHICLE`S STEERABLE WHEELS

STEERING BY DRIVING

Combined with manual steering

...Electrical

...Fluid

...Lever and/or linkage

...With controller cam

...Lost motion type

...Geared

...With flexible and/or yieldable link

Auxiliary steering motor

.Independently operable drive motors

.Electrical

.Variable contact

.Controlled from rotatably mounted superstructure

.Steering responsive to rotary movement of superstructure

.Combined

.Swinging traction frame responsive to differential drive

.Reversing drive to traction element

.Independent flexible track

SPECIAL DRIVING DEVICE

.COMBINED WITH MANUAL STEERING

Interlocked

.Electrical

.Lever and/or linkage

...With controller cam

...Lost motion type

...Geared

...With flexible and/or yieldable link

Auxiliary steering motor
9.46 ....Pivoted track frame
9.48 ...Laterally extendable track
9.5 ....Track support mounted for vertical movement
9.52 ....Adjustable
9.54 ....With spring
9.56 .....Longitudinally extending coil spring
9.58 .....Leaf or torsion spring
9.6 ......Transversely extending
toothed wheel drive
9.64 ....Belt or chain driven
10 ..Annular

MOTOR-CARRYING ATTACHMENTS
11 .Driven steering wheel type
12 ..Single wheel
14.1 VEHICLE TRAINS
14.2 .Motorized trailer
14.3 ..All motors supplied from power plant of a single vehicle
14.4 .Drive means between vehicles through coupling
14.6 .Tractor drive effort varied by pull exerted by trailer
14.7 .Vehicle drive drives other vehicle wheel
14.5 .Overload release

ADDITIONAL TRACTION WHEEL
16 TRACTION WHEEL ATTACHMENTS
19.1 STEERED BY WALKING ATTENDANT
19.2 .Who steerably controls steerable wheel
19.3 .Handle movement controls vehicle drive
20 WITH ROLLERS
21 SPECIAL WHEEL BASE
22 .Five or more wheels
23 ..Driven steering wheel type
24 ...Stub-axle type
24.01 ..Having tandem steerable or translatable wheels or wheel sets
24.02 ..Displaceable wheel shifts or proportions load
24.03 ..Independently rotatable side-by-side dual wheels
24.04 ..With differential housing integrally fixed to vehicle frame
24.05 ..Rocker beam houses drive means
24.06 ..Plural propelling motors
24.07 ...Separate driving motor for each drive wheel
24.08 ..Each wheel positively driven
24.09 ..With interaxle differential
24.1 ...With drive interrupt means to either tandem drive wheel
24.11 ..Driven tandem wheels
24.12 ....One serially driven by other
24.13 ..Spring rocker beam
205.1 .Rider propulsion with additional source of power, e.g., combustion engine or electric motor(IPC)
205.2 ..Rider propelled cycle with auxiliary combustion engine(IPC)
205.3 ...Control or actuating device therefore; Arrangement thereof(IPC)
205.4 ...Power driven at crank shaft(IPC)
205.5 ...Power driven at axle(IPC)
205.6 ...Power driven at endless flexible drive member, e.g., chain(IPC)
205.7 ...Power driven by friction roller or gear engaging the ground wheel(IPC)
206.1 ...Rider propelled cycle with auxiliary electric motor(IPC)
206.2 ...Control or actuating device therefore(IPC)
206.3 ...Characterized by detector or sensor; Arrangement thereof(IPC)
206.4 ...Power driven at crank shaft(IPC)
206.5 ...Power driven at axle(IPC)
206.6 ....With axle driving shaft arranged coaxially with motor output shaft(IPC)
206.7 ...Power driven at endless flexible drive member, e.g., chain(IPC)
206.8 ...Power driven by friction roller or gear engaging the ground wheel(IPC)
207.1 ..Accessories; Arrangement thereof(IPC)
207.2 ...Solar cell; Arrangement thereof(IPC)
207.3 ...Battery; Arrangement thereof(IPC)
208 .Collapsible or knockdown for storage or transport
CLASS 180 MOTOR VEHICLES

209. With means for changing number of supporting wheels, or for adjusting relative location thereof.

210. Having only three wheels.

211. Including steerable and driven wheel.

212. All wheels motor driven.

213. Having motor mounted to swing with steerable wheel.

214. Electrical-type motor.

215. Including two wheels driven and having common axis of rotation.

216. Electrical-type motor.

217. Including endless element for transmitting drive to wheels.

218. Having only two wheels.


220. Electrical-type motor.

221. Including rotating element for frictionally engaging and driving a wheel.

222. And means for steering that wheel.

223. Including steerable and driven wheel.

224. Both wheels motor driven.

225. Having frame element or fender constituting also exhaust or fuel passageway or fuel reservoir.

226. Including longitudinally extending shaft for transmitting drive to wheel.

227. Including resilient means for mounting driven wheel.

228. Including resilient means for mounting motor.

229. With means for cooling motor.

230. With change-speed means between motor and driven wheel.

231. Including endless element for transmitting drive and means for adjusting tension of element.

232. WITH MEANS FOR (1) PROTECTING MOTOR FROM IMPACT OF COLLISION, (2) UTILIZING MASS OF MOTOR TO ABSORB FORCE THEREOF, OR (3) PROTECTING OCCUPANT REGION OF VEHICLE FROM IMPACT-INDUCED SHIFTING OF MOTOR.

233. WITH LEVELING DEVICE.

234. Having four wheels driven.

235. With means for steering all driven wheels.

236. Comprising articulated frame and means for pivoting one portion of frame relative to other portion about vertical axis located centrally of vehicle.

237. In a path of travel other than that produced by turning the front wheels and the rear wheels substantially equally and oppositely.

238. Comprising swingable, plural-wheel-carrying axles on individual, vertical axes of pivot.

239. At least one axle being offset from its pivotable axis.

240. Including longitudinally extending, endless element for transmitting drive to wheels.

241. Including rotatable shaft extending longitudinally from wheels at one end of vehicle to wheels at other end for transmitting steering force thereto.

242. Including pump and fluid motor, or generator and electric motor, for driving one or more wheels.

243. And another means for driving the remaining driven wheels.

244. With means for braking either (1) one or more driven wheels or (2) structure transmitting drive to wheel.

245. Including separate mechanical assemblies for transmitting drive to each of two wheels at one end of vehicle.

STEAM TRACTION ENGINES

36. Driven steering wheel type.

37. Four wheels driven.

39. With boiler leveler.

40. Spring mounted on axle.

May 2011
..And assemblies for each of two wheels at other end, also.

With manually operated means for disengaging drive to one or more, but fewer than all, of the four wheels.

With differential means for driving two wheel sets at dissimilar speeds.

..And means for locking out the differential means.

...Manually operated type of lockout means.

Including longitudinally extending, endless element for transmitting drive to wheels.

HAVING AT LEAST ONE WHEEL BOTH DRIVEN AND STEERABLE

Steerable wheel has exclusive axis of pivot (i.e., stub-axle type).

..Including flexible, axially rotatable means having one portion fixed to vehicle and another portion pivotable with wheel for transmitting drive thereto.

...Pivotable portion of means has additional structure of gearlike nature in driving engagement with corresponding structure on wheel.

...Means comprises rotatable shaft containing plural universal joints.

...Having at least one joint located on each side of axis of pivot.

...Pivotable portion of means includes ball or socket element of ball-and socket type universal joint.

....Joint includes intermediate ball, floating in groove, for positively engaging ball with socket.

...Pivotable portion of means includes gear element of intermeshing gear type universal joint.

....Joint includes at least one gear element rotatable on axis of pivot and intermeshing with gear element on pivotable portion.

...Joint also includes gear element on fixed portion engaging gear element on axis of pivot and vertically offset from gear element on pivotable portion.

...Having axis of pivot disposed between parallel planes defined by opposite sides of wheel.

..With driven axle, mounting two or more wheels, swingable about axis of pivot, and motor mounted to swing therewith.

..Having axle offset longitudinally from axis of pivot.

..With driven axle, mounting two or more wheels, swingable about axis of pivot, and swingable also about a horizontal axis.

..With driven axle, mounting two or more wheels, swingable about axis of pivot, and shaft for transmitting drive coincident with axis.

WITH BELT OR HARNESS FOR RESTRAINING OCCUPANT, AND MEANS WHEREBY THE BELT OR HARNESS CONTROLS, OR IS CONTROLLED BY, THE FUNCTIONING OF A VEHICLE SYSTEM OR 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 portion of perimeter of vehicle with external object.
CLASS 180 MOTOR VEHICLES

..And causing application of vehicle brake
276 ...Brake comprises or includes element moved or deformed into engagement with ground
277 ...And also interruption of at least one operational system of the vehicle or its motor
278 ....System comprises clutch
279 ...And causing interruption of an electrical system of the vehicle or its motor
280 ..And causing operation of vehicle steering system
281 .Comprising either movable closure member or fastening device therefor responsive to forward or rearward movement, or variations therein, of vehicle
282 .Responsive to sensing of acceleration, deceleration, or tilt of vehicle
283 ..And causing interruption of ignition circuit
284 ...And also impeding flow of fuel
285 ..And causing disruption of drive train between motor and wheels
286 .Comprising vehicle system or component responsive either to position of movable closure member or to status of fastening device therefor
287 .By preventing unauthorized or unintended access or use
288 ..Responsive to failure of taxicab operator to activate fare meter upon boarding of passenger
289 ..Comprising device, mechanism, or system for either repositioning a movable or removable closure member or operating a fastening device therefor
290 .Responsive to weight of cargo load transported by vehicle
53.1 MOTOR AS SOURCE OF POWER FOR OTHER MACHINE
53.2 .Other machine is creeper drive on motor vehicle
53.3 .Other machine is mounted by three point hitch (i.e., Ford-Ferguson hitch)
53.4 .Hydraulic drive to other machine
53.5 .Electric drive to other machine
53.6 .Drive to other machine by power take-off (PTO) driven by wheel or axle of motor vehicle
53.61 ..PTO mounted directly on or engaging drive wheel to rotate therewith
53.62 ..PTO constantly driven with wheel selectively driven
53.7 .Drive to other machine by power take-off (PTO) at front end of vehicle
53.8 .Other machine is vehicle accessory

POWER
54.1 .With spring powered motor
54.2 .With electric motor
55 .On lower running gear
56 ..Rear axle and body
57 ...Longitudinal shaft
58 ..Frame
59 ...Pivoted support on axle
60 ..Electric
61 ..Pivoted support on axle
62 ..Rear axle
63 .Motor moved by axle
54.3 .Having specific motor-to-body-frame relationship
54.4 ..Including change-speed gearing, or clutch, mounted in common with motor
54.5 ...With member or mechanism for controlling gearing or clutch, and means for minimizing transfer of movement, caused by operation of motor, to member or mechanism
54.6 ...With means enabling repositioning of motor and gearing or clutch
54.7 ...With wheeled auxiliary frame, resiliently joined to body frame, for supporting motor and gearing or clutch
54.8 ..Including means on body frame or motor for handling exhaust
54.9 ..Including means enabling repositioning of motor
54.10 ..Including auxiliary frame for motor and resilient means for connecting auxiliary frame to body frame
..Including means of nonsupporting nature for minimizing operation-induced movement of motor

Electric

Hybrid vehicle (IPC)

Specific vehicle architecture (IPC)

Series and parallel (IPC)

Switching type (IPC)

Differential gearing type (IPC)

Electrical distribution type (IPC)

Series (IPC)

Parallel (IPC)

Motor assist (IPC)

Control of multiple systems specific to hybrid operation

Control of external device in conjunction with specific hybrid function

Control of individual subunit specific to hybrid operation

Control of engine specific to hybrid operation

Control of motor or generator specific to hybrid operation

Control of battery specific to hybrid operation

With means on vehicle for generating power for the electric motor

With motor in or moveable with wheel

With gearing between electric motor and drive wheel

Gearing is a changeable ratio gearing

With electronic devices (logic gates, semi-conductors, vacuum tubes, etc.) in control circuit

Including traction motor of turbine type driven by fluid product of combustion

Including traction motor of kind driven by expansible fluid from source external of motor

Gas is product of treatment of a volatile fluid (e.g., gas is steam)

With means to condense gas discharged from motor

Including traction motor of kind driven by noncompressible fluid received under pressure from a pump

Vehicle includes another system operated by same fluid

Having variable displacement type motor or pump

Having separate motor for each driven, surface-engaging member

With means for handling motor exhaust

With means to generate steam for a propulsion purpose

With means to guide and/or control air for power plant cooling

With further means to utilize power plant cooling air for other purposes

With means to guide and/or control combustion air for power plant

Radiators and condensers, mounting

With protector for the radiator or condenser

Battery mountings and holders

Hoods

Pivoted about horizontal axis extending transversely of vehicle (e.g., alligator type or front end pivot)

With noise suppression means

Noise suppression means prevents hood from vibrating (i.e., anti rattlers)

With access openings having moveable or removeable closures

Water deflectors

With means to increase idle speed of internal combustion engine to compensate for accessory load

With fuel supply for internal combustion engine

Engine uses gaseous fuel

Vehicle has plural power plants

Underpans

Condition responsive (e.g., responsive to speed, load, etc.)
With temperature control, lubrication or sealing
With laterally movable wheel
Wheel drives parallel wheel
Tire directly driven
..With particular gear structure
..Assembly feature
..Traction aid
..With protective guard or casing
..Mechanical movement transmission
..Final drive axle movable
..Rigid axle
...Belt or chain drive
...With tensioning means
...With lateral support between the differential or axle housing and the vehicle frame
...With sprung differential
...And differential support feature
...And final gear drive
...And final gear drive
..Belt or chain drive
..Swinging axle, single pivot
..With sprung differential
...And differential support feature
...And final gear drive
...And transverse leaf spring suspension
...And final gear drive
..Variable speed or direction
..Plural
..Belt or chain
..Fluid drive
..Friction drive
..Planetary
..With brake
..Final gear drive at each of two parallel wheels
..Planetary
..Belt or chain
..Gear transmission relationship to frame or axle
..Transmission is differential
..Shaft relationship to frame or shaft
..Transmission support
..Differential or axle housing
..Shaft
...With propeller shaft casing, (e.g., torque tube)
...Vibration damping
..Flexible support

With particular drive coupling
..Relative axial movement
..Drive connection to wheel

COMPENSATING DEVICES
WITH PLURAL FUEL TANKS
MANUALLY ACTUATED CONTROLLING DEVICES
By other than hand or foot of operator
..On mine car vehicle
..On delivery-type vehicle
..With rein means
..With vehicle control extension
..With plural control stations
..Side-by-side
..For single control means
..With tool or equipment control
..Braking controllable by passenger
..With movable control station or seat position
..Movable cab
..Tilting
..Simultaneously movable seat and control
..Seat on seat portion movable to alternate positon
..With tool or equipment control
..With tiller-type handle
..Multiple vehicle functions controllable by single device
..With adjustable operator engageable control
..With fuel or air throttle control
..With transmission control
..Steering shaft

STEERING GEAR
Steering by terrestrial guide
..No mechanical connection between steering shaft and steering gear
..Hydraulic
..Power assist alarms or disablers
..With alternate emergency power means (e.g., pump, gearing, etc.)
..With fluid backup
..With electrical backup
..Each wheel steerable
..Occupant steered
..With condition modulated steering
..Independently controlled steerable wheels

..With electric power assist

..With electric power assist to all wheels

..With fluid power assist

...With electrical control

...With mechanical power assist

..With fluid power assist

..Between articulated wheeled vehicle sections

...Combined with another steering mode

...Reciprocating power assist

...With electrical control

....Vehicle speed condition only

...With swinging axle

...Including flexible power transmitting means

..Steering column supported

...Including rack gear means

...With rack and pinion gearing intermediate steering shaft and power assist

...Having rotary working member

...Having flexible working member

...Steering linkage includes interengaging gear means

...With plural working members

...Working member movement traverses vehicle path

...Working member movement traverses vehicle path

...Moves separate rod for each wheel steering arm

...Working member part engages wheel steering arm

...Working member part engages tie rod

...Movable working member engages wheel steering arm

...Movable working member is a moving cylinder

...With linkage intermediate working member and wheel steering arm

..Device to control pressure (e.g., valve)

..Hydraulic circuit

..With electric power assist

..Specific mechanical feature

..Controlling rear wheels

..Condition modulated

.Dust guards

....With passenger compartment having article receiving or removing means

..Tractor and similar vehicle cabs

.Movable cab or operator’s station

..Tilting

...Via power or power enhancing means

..Overmotor cab

.Movable body portion facilitating engine access

..Cab portion

..Overmotor cab

..With means for handling exhaust of a motor

..Dashboards

..Footboards and pedal guards

....With structure adapted to receive or support a motor, change-speed gearing, or other power train element

MISCELLANEOUS

CROSS-REFERENCE ART COLLECTIONS

ARGICULTURAL-TYPE TRACTORS

DEVICES FOR TRAVERSING VERTICAL SURFACES

SHOCK OR VIBRATION ABSORBING OR TRANSMITTING MEANS BETWEEN WHEEL SUSPENSION AND MOTOR

AIRSTREAM REACTIVE VEHICLE OR VEHICLE STRUCTURE

TRACTION DOLLIES FOR AIRCRAFT (Cross Reference Art Collection created in companion project)

AXLES

ADJUSTABLE AXLES

MOTORIZED WHEELCHAIRS

MOTOR VEHICLES WITH SHORT WHEELBASE

POWER (180/54.1)

.Electric (180/65.1)
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)
## PROJECT MB180

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### CLASSIFICATION ORDER 1909

#### MAY 03, 2011

#### PROJECT MB180

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### C. CHANGES TO THE USPC-TO-IPC CONCORDANCE

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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.
218, 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.