

**ECLA****EUROPEAN CLASSIFICATION****B62M**

**RIDER PROPULSION OF WHEELED VEHICLES OR SLEDGES; POWERED PROPULSION OF SLEDGES OR [N: SINGLE-TRACK] CYCLES; TRANSMISSIONS SPECIALLY ADAPTED FOR SUCH VEHICLES (arrangements or mounting of transmissions in vehicles in general B60K; transmission elements per se F16)**

**Note**

In this subclass, the term "transmission" means all parts between the prime mover or the part to which a rider immediately applies propulsive effort, e.g. pedal cranks, and a driven ground wheel.>

**Guide heading:**

**Rider propulsion of wheeled vehicles** ([propulsion by ground-engaging rods B62M29/02](#))

**B62M1/00**

**Rider propulsion of wheeled vehicles** ([rider propulsion with additional source of power B62M6/00; propulsion by ground-engaging rods B62M29/02](#)) [C0906]

[N: **Note** [N1108]

Groups [B62M1/12-B62M1/34](#) correspond to IPC2013.01 ]

**B62M1/10**

- . involving devices which enable the mechanical storing and releasing of energy occasionally, e.g. arrangement of flywheels [C0906]

**B62M1/10B**

- . . [N: **using elastic elements**]

**B62M1/12**

- . operated by both hand and foot power [M1108]

**B62M1/14**

- . operated exclusively by hand power [M1108]

**B62M1/16**

- . . by means of a to-and-fro movable handle-bar

**B62M1/18**

- . by movement of rider`s saddle

**B62M1/20**

- . . with additional rider propulsion means

**B62M1/24**

- . with reciprocating levers, e.g. foot levers ([levers with can be immobilised as foot rests B62M5/00](#)) [N1108]

**B62M1/26**

- . . characterised by rotary cranks combined with reciprocating levers [N1108]

**B62M1/28**

- . . characterised by the use of flexible drive members, e.g. chains [N1108]

**B62M1/30**

- . . characterised by the use of intermediate gears [N1108]

**B62M1/32**

- . . characterised by directly driving the wheel axle, e.g. by using a ratchet wheel [N1108]

**B62M1/34**

- . by walking on an endless belt [N1108]

**B62M1/36**

- . with rotary cranks, e.g. with pedal cranks ([B62M1/34 takes precedence; combined with reciprocating levers B62M1/26](#); cranks which can be immobilised as foot rests [B62M5/00](#)) [N1108]

- B62M1/38
  - . . for directly driving the wheel axle [N1108]
- B62M3/00 Construction of cranks operated by hand or foot**
- B62M3/00B
  - . [N: Combination of crank axles and bearings housed in the bottom bracket (bottom bracket frame details [B62K19/34](#))] [N9611]
- B62M3/02
  - . of adjustable length
- B62M3/04
  - . . automatically adjusting
- B62M3/06
  - . with elliptical or other non-circular rotary movement
- B62M3/08
  - . Pedals
- B62M3/08B
  - . . [N: Toe clip]
- B62M3/08C
  - . . [N: Attachments between shoe and pedal other than toe clips, e.g. cleats (shoes for cyclists [A43B5/14](#))]
- B62M3/10
  - . . All-metal pedals
- B62M3/12
  - . . with reflectors
- B62M3/14
  - . Hand-grips for hand-operated cranks
- B62M3/16
  - . Accessories
- B62M5/00 Foot-driven levers as pedal cranks which can be immobilised as foot-rests (immobilising against theft [B62H5/10](#))**
- B62M6/00 Rider propulsion of wheeled vehicles with additional source of power, e.g. combustion engine or electric motor [N0906]**
- [N: **Notes** [N0906]  
In this main group, at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place  
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- B62M6/10
  - . Rider propelled cycles with auxiliary combustion engine [N0906]
- B62M6/15
  - . . Control or actuating devices therefor [N0906]
- B62M6/20
  - . . power-driven at crank shaft parts [N0906]
- B62M6/25
  - . . power-driven at axle parts [N0906]
- B62M6/30
  - . . power-driven at single endless flexible member, e.g. chain, between cycle crankshaft and wheel axle, the engine engaging the endless flexible member [N0906]
- B62M6/35
  - . . power-driven by friction rollers or gears engaging the ground wheel [N0906]
- B62M6/40
  - . Rider propelled cycles with auxiliary electric motor [N0906]
- B62M6/45
  - . . Control or actuating devices therefor [N0906]
- B62M6/50
  - . . . characterised by detectors or sensors, or arrangement thereof [N0906]
- B62M6/55
  - . . power-driven at crank shafts parts [N0906]
- B62M6/60
  - . . power-driven at axle parts [N0906]

B62M6/65	. . . with axle and driving shaft arranged coaxially [N0906]
B62M6/70	. . power-driven at single endless flexible member, e.g. chain, between cycle crankshaft and wheel axle, the motor engaging the endless flexible member [N0906]
B62M6/75	. . power-driven by friction rollers or gears engaging the ground wheel [N0906]
B62M6/80	. Accessories, e.g. power sources; Arrangements thereof [N0906]
B62M6/85	. . Solar cells [N0906]
B62M6/90	. . Batteries [N0906]
<b>B62M7/00</b>	<b>Motorcycles characterised by position of motor or engine</b> (rider propulsion with addition source of power, e.g. auxiliary combustion engine or electric motor <a href="#">B62M6/00</a> ; frames characterised by position of engine <a href="#">B62K11/00</a> ) [C0906]
B62M7/02	. with engine between front and rear wheels
B62M7/04	. . below the frame
B62M7/06	. . directly under the saddle or seat
B62M7/08	. with the engine over the rear wheel
B62M7/10	. with the engine over the front wheel
B62M7/12	. with the engine beside or within the driven wheel
B62M7/14	. with the engine on an auxiliary wheeled unit, e.g. trailer, sidecar (trailers <a href="#">B60P</a> , <a href="#">B62D</a> ; sidecars <a href="#">B62K27/00</a> )
B62M7/16	. . [N: IPC3] with wheel of unit driven by the engine
<b>Guide heading:</b>	<b>Tranmissions</b> [N: (freewheels or freewheels clutches specially adapted for cycles <a href="#">F16D41/24</a> )] [C9505]
<b>B62M9/00</b>	<b>Transmissions characterised by use of an endless chain, belt, or the like</b> (cycle chain guards <a href="#">B62J13/00</a> )
	<b>Note</b> [N0908] In this main group, at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.
B62M9/02	. of unchangeable ratio
B62M9/04	. of changeable ratio
B62M9/06	. . using a single chain, belt, or the like
B62M9/08	. . . involving eccentrically- mounted or elliptically-shaped driving or driven wheel; with expansible driving or driven wheel
B62M9/08B	. . . . [N: involving eccentrically mounted driving or driven wheel]
B62M9/10	. . . involving different-sized wheels, [N: e.g. rear sprocket chain wheels] selectively engaged by the chain, belt, or the like [N: (bicycle hubs rotatably arranged on axle <a href="#">B60B27/02B</a> )] [C9611]
B62M9/10B	. . . . [N: involving front sprocket chain-wheels engaged by the chain, belt or the

- like] [N9611]
- B62M9/12 . . . . the chain, belt, or the like being laterally shiftable, [N: e.g. using a rear derailleur] [C9611]
- B62M9/121 . . . . . Rear derailleurs [N0908]
- B62M9/122 . . . . . electrically or fluid actuated; Controls thereof [N0908]
- B62M9/123 . . . . . changing gears automatically [N0908]
- B62M9/124 . . . . . Mechanisms for shifting laterally [N0908]
- B62M9/1242 . . . . . {7 dots} characterised by the linkage mechanisms [N0908]
- B62M9/1244 . . . . . {7 dots} limiting or positioning the movement [N0908]
- B62M9/1246 . . . . . {8 dots} using cams or plates [N0908]
- B62M9/1248 . . . . . {7 dots} characterised by the use of biasing means, e.g. springs; Arrangements thereof [N0908]
- B62M9/125 . . . . . Mounting the derailleur on the frame [N0908]
- B62M9/126 . . . . . Chain guides; Mounting thereof [N0908]
- B62M9/127 . . . . . Mounting or guiding of cables [N0908]
- B62M9/128 . . . . . Accessories, e.g. protectors [N0908]
- B62M9/131 . . . . . Front derailleurs [N0908]
- B62M9/132 . . . . . electrically or fluid actuated; Controls thereof [N0908]
- B62M9/133 . . . . . changing gears automatically [N0908]
- B62M9/134 . . . . . Mechanisms for shifting laterally [N0908]
- B62M9/1342 . . . . . {7 dots} characterised by the linkage mechanisms [N0908]
- B62M9/1344 . . . . . {7 dots} limiting or positioning the movement [N0908]
- B62M9/1346 . . . . . {8 dots} using cams or plates [N0908]
- B62M9/1348 . . . . . {8 dots} characterised by the use of biasing means, e.g. springs; Arrangements thereof [N0908]
- B62M9/135 . . . . . Mounting the derailleur on the frame [N0908]
- B62M9/136 . . . . . Chain guides; Mounting thereof [N0908]
- B62M9/137 . . . . . Mounting or guiding of cables [N0908]
- B62M9/138 . . . . . Accessories, e.g. protectors [N0908]
- B62M9/14 . . . . the wheels being laterally shiftable
- B62M9/16 . . . . Tensioning or adjusting equipment for chains, belts or the like
- B62M11/00** **Transmissions characterised by the use of inter-engaging toothed wheels or frictionally-engaging wheels (with roller engaging the periphery of ground wheel B62M13/00)**
- B62M11/02 . . . . of unchangeable ratio
- B62M11/04 . . . . of changeable ratio
- B62M11/06 . . . . with spur gear wheels (B62M11/14 takes precedence)
- B62M11/08 . . . . [N: IPC3] with a radially-shiftable intermediate gear wheel
- B62M11/10 . . . . with bevel gear wheels (B62M11/14 takes precedence)
- B62M11/12 . . . . with frictionally-engaging wheels (B62M11/14 takes precedence)

B62M11/14	<ul style="list-style-type: none"> <li>. . with planetary gears</li> </ul>
B62M11/14B	<ul style="list-style-type: none"> <li>. . . [N: built in, or adjacent to, the bottom bracket]</li> </ul>
B62M11/16	<ul style="list-style-type: none"> <li>. . . built in, or adjacent to, the ground-wheel hub</li> </ul>
B62M11/18	<ul style="list-style-type: none"> <li>. . . with a plurality of planetary gear units</li> </ul>
<b>B62M13/00</b>	<b>Transmissions characterised by use of friction rollers engaging the periphery of the ground wheel</b> (for rider propelled cycles with additional source of power <a href="#">B62M6/35</a> , <a href="#">B62M6/75</a> ) [C0905]
B62M13/02	<ul style="list-style-type: none"> <li>. with changeable ratio, e.g. with roller of varying diameter</li> </ul>
B62M13/04	<ul style="list-style-type: none"> <li>. with means for moving roller into driving contact with ground wheel</li> </ul>
<b>B62M15/00</b>	<b>Transmissions characterised by use of crank shafts and coupling rods</b>
<b>B62M17/00</b>	<b>Transmissions characterised by use of rotary shaft, e.g. cardan shaft</b>
<b>B62M19/00</b>	<b>Transmissions characterised by use of non-mechanical gearing, e.g. fluid gearing</b>
<b>B62M21/00</b>	<b>Transmissions characterised by use of resilient elements therein</b>
<b>B62M23/00</b>	<b>Transmissions characterised by use of other elements; Other transmissions</b>
B62M23/02	<ul style="list-style-type: none"> <li>. characterised by the use of two or more dissimilar sources of power, e.g. transmissions for hybrid motorcycles (transmissions for wheeled vehicles using rider propulsion with additional source of power <a href="#">B62M6/00</a>) [C0906]</li> </ul>
<b>B62M25/00</b>	<b>Actuators for gearing speed-change mechanisms specially adapted for cycles</b> (rider operated controls for cycles in general <a href="#">B62K23/00</a> ; gearing speed change mechanisms <a href="#">F16H</a> )
B62M25/02	<ul style="list-style-type: none"> <li>. with mechanical transmitting systems, e.g. cables, levers</li> </ul>
B62M25/04	<ul style="list-style-type: none"> <li>. . hand actuated</li> </ul>
B62M25/04B	<ul style="list-style-type: none"> <li>. . . [N: having single actuating means operating both front and rear derailleur] [N9709] [C9710]</li> </ul>
B62M25/06	<ul style="list-style-type: none"> <li>. . foot actuated</li> </ul>
B62M25/08	<ul style="list-style-type: none"> <li>. with electrical or fluid transmitting systems</li> </ul>
<b>B62M27/00</b>	<b>Propulsion devices for sledges or the like</b> (pushed or pulled by persons or animals <a href="#">B62B</a> , <a href="#">B62C</a> ; wind propulsion <a href="#">B62B15/00</a> )
B62M27/02	<ul style="list-style-type: none"> <li>. power driven</li> </ul>
<b>B62M29/00</b>	<b>Ground engaging propulsion devices for cycles, sledges, or rider-propelled wheeled vehicles, not otherwise provided for</b> [N: (non-motorized scooters with skis or runners <a href="#">B62K3/00B</a> )] [C0201]

B62M29/02

- using ground-engaging rods