B61K

OTHER AUXILIARY EQUIPMENT FOR RAILWAYS (energy storing brakes B61H; protection of permanent way against weather influences E01B; rail cleaning, snow ploughs E01H)

Definition statement
This place covers:
All auxiliary devices and methods needed to make railways safer, faster and energy efficient.

B61K 1/00

Transferring passengers, articles, or freight to and from moving trains; Slipping or coupling vehicles from or to moving trains

Definition statement
This place covers:
Transit systems and methods wherein passengers or freights board and exit during moving of vehicles or wherein rail vehicles are coupled/uncoupled during motion.

Following drawing shows one example (US2010307368):

B61K 3/00

Wetting or lubricating rails or wheel flanges

Definition statement
This place covers:
Devices and methods for the application of lubricant onto the surface of rails or wheels.
Following drawing shows one example:

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Reference</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lubricating for vehicles</td>
<td>B60R 17/00</td>
</tr>
<tr>
<td>Lubrication for locomotives</td>
<td>B61C 17/08</td>
</tr>
<tr>
<td>Lubricating stick</td>
<td>C10M 105/00</td>
</tr>
<tr>
<td>Cleaning of rails</td>
<td>E01H</td>
</tr>
<tr>
<td>Lubricating in general</td>
<td>F16N</td>
</tr>
</tbody>
</table>

B61K 5/00
Apparatus for placing vehicles on the track; Derailers; Lifting or lowering rail vehicle axles or wheels (hoisting apparatus B66)

Definition statement
This place covers:
The titles of this group are self-explanatory and do not need to be more specified.

Typical examples are:
- Portable derailing device.
- Device for lifting a rail vehicle while standing on the rail.
- Re-railer apparatus for placing derailed railway vehicle back onto the track.
Following drawings show two examples:

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Lifts | B66F 7/02 |

B61K 7/00

Railway stops fixed to permanent way; Track brakes or retarding apparatus fixed to permanent way; Sand tracks or the like (skids, wedges, vehicle-mounted scotch blocks B61H)

Definition statement

This place covers:

Devices and methods for retarding or stopping the movement of the railway vehicle, the devices and methods being located on the track.
Following drawings show two examples:

B61K 7/14
Sand or like tracks

Definition statement
This place covers:
Means combined with a track using sand or materials which have a retarding effect on the wheels.
Illustrative example of subject matter classified in this group:

References

Limiting references

This place does not cover:

| Sanding apparatus          | B61C 15/10 |

B61K 9/00

Railway vehicle profile gauges; Detecting or indicating overheating of components; Apparatus on locomotives or cars to indicate bad track sections; General design of track recording vehicles

Definition statement

This place covers:

The titles of this group are self-explanatory and do not need to be more specified.

Typical examples are:

- Method for detecting of imbalance in wheels of rail vehicle.
- Train wheel bearing temperature detection.
- Sensors for rail vehicle wheel bearing unit.
- Method and device for contactless measurement of the deformation and wear of railroad tracks.
- Acoustic monitoring of railcar running gear.
Following drawings show two examples:

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Category</th>
<th>CPC Classifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturing wheels</td>
<td>B23B 5/28, B24B 5/30, B24B 21/02</td>
</tr>
<tr>
<td>Reconditioning wheels</td>
<td>B23B 5/32</td>
</tr>
<tr>
<td>Railway wheels</td>
<td>B60B 17/00</td>
</tr>
<tr>
<td>Brake-action in case of accident</td>
<td>B60T 7/124</td>
</tr>
<tr>
<td>Adjusting wheel-braking force</td>
<td>B60T 8/00</td>
</tr>
<tr>
<td>Control, warning or safety means</td>
<td>B61L</td>
</tr>
<tr>
<td>Track-building in general</td>
<td>E01B</td>
</tr>
<tr>
<td>Measuring for track-building purposes</td>
<td>E01B 35/00</td>
</tr>
<tr>
<td>Measuring arrangements</td>
<td>G01B 17/00</td>
</tr>
<tr>
<td>Weighing apparatus or method</td>
<td>G01G 19/04 - G01G 19/06</td>
</tr>
<tr>
<td>Measuring mechanical vibrations</td>
<td>G01H 17/00</td>
</tr>
<tr>
<td>Radiation pyrometry</td>
<td>G01J 5/0022</td>
</tr>
<tr>
<td>Casings</td>
<td>G01J 5/04</td>
</tr>
<tr>
<td>Thermometers for measuring temperature of moving bodies</td>
<td>G01K 13/04</td>
</tr>
</tbody>
</table>
Testing of railway vehicles  
Investigating in general  
Investigating presence of flaws  
Investigating of materials by using ultrasonic  
Measuring speed  
Navigation for trains

<table>
<thead>
<tr>
<th>B61K 11/00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serving peculiar to locomotives, e.g. filling with, or emptying of, water, sand, or the like at the depots (lifting or lowering axles or wheels B61K 5/00; filling stations for steam or pneumatic accumulator locomotives B61C 8/00; water or fuel supply fittings on locomotives B61C 17/02; refuelling locomotives with solid fuels B65G 67/18; washing or cleaning boilers F28G)</td>
</tr>
</tbody>
</table>

**Definition statement**

*This place covers:*

The titles of this group are self-explanatory and do not need to be more specified.

Following drawings shows two examples:
References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Transport or storage devices</th>
<th>B65G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conveying materials in bulk</td>
<td>B65G 53/00</td>
</tr>
</tbody>
</table>

**B61K 13/00**

Other auxiliaries or accessories for railways (safety belts or harnesses [A62B 35/00])

**Definition statement**

This place covers:

Other auxiliary devices and methods that are not in B61K 1/00 - B61K 11/00.

Following drawing shows one example: