B61B

RAILWAY SYSTEMS; EQUIPMENT THEREFOR NOT OTHERWISE PROVIDED FOR (lifts or hoists, elevators, escalators, moving walkways B66B)

Definition statement

This place covers:
Systems in which trains or individual passenger vehicles or load carriers run on or are guided by ground or elevated tracks defined by rails, ropes, cables, chains, racks or other guiding elements for wheels, rollers, or sliding anti-friction devices.

Typical examples are:
- General arrangement of stations or platforms.
- Goods marshalling systems.
- Automatically guided railway vehicles.
- Protection devices for the safety of passengers waiting on or leaving the platform, e.g. gates or video control systems.
- Component parts for rope railways, e.g. cabins, ski-lift seats, cable devices, safety devices for cable fracture, cable lubrication, cable grippers.
- Hybrid personal transport systems.

References

Informative references

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

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<thead>
<tr>
<th>Electric propulsion</th>
<th>B60L 13/00</th>
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<tr>
<td>Guiding railway traffic, ensuring the safety of railway traffic</td>
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</tr>
<tr>
<td>Track, rail and switches</td>
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B61B 1/00

General arrangement of stations, platforms, or sidings; Railway networks; Rail vehicle marshalling systems (shunting humps and shunting devices B66J; construction of platforms E01F 1/00; time-tables G09D)

Definition statement

This place covers:
General arrangement of the station platform to the transportation system to allow an efficient and safe transport of passengers or goods.

Typical examples are:
- Automatic transportation systems, e.g. self-guided railway vehicles.
- Mass transport systems.
- Pipeline transportation systems.
- Protection devices for passengers waiting on the station platform, e.g. gates or video control devices.
Following drawings show two examples for this group:

References

Informative references

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

<table>
<thead>
<tr>
<th>Topic</th>
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<td>Construction of platforms</td>
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<tr>
<td>Indicators in the station</td>
<td>G08G 1/127</td>
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</table>

**B61B 3/00**

Elevated railway systems with suspended vehicles (with suspended flexible tracks **B61B 7/00**; saddle or like balanced type with monorail **B61B 13/06**; with propelling cables and for transporting materials **B65G**; tracks therefor **E01B 25/00**)

**Definition statement**

*This place covers:*

Transportation vehicles of the suspended type that runs on elevated tracks being of the rigid type.
Following drawings show one example for this group:

References

Informative references

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

| Electric propulsion therefore                          | B60L 13/00 |
| Conveyors for loading or tipping                        | B65G       |
| Circuit arrangements for transfer of electric power between ac networks and dc networks | H02J 5/00  |

B61B 5/00

Elevated railway systems without suspended vehicles (with monorail B61B 13/04; tracks therefor E01B 25/00)

Definition statement

This place covers:

Elevated transportation vehicles running on the upperside of the track.
Following drawing shows one example for this group:

**B61B 7/00**

**Rope railway systems with suspended flexible tracks**

**Definition statement**

*This place covers:*

Transportation systems of the suspended type running on flexible tracks, wherein the track can be a cable or a chain.

Following drawing shows one example:

**References**

**Informative references**

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

| Toy railways | A63H 21/02 |
Cable cranes | B66C 21/00
Flexible tracks | E01B 25/14, E01B 25/16
Camera systems for filming | F16M 11/18, F16M 11/42

**B61B 9/00**

Tramway or funicular systems with rigid track and cable traction (haulage clips B61B 12/12)

**Definition statement**

*This place covers:*

Transportation systems moving on a rigid track and being moved by a conveying cable or chain to which the transportation system can be coupled by means of clamping devices arranged thereon.

Following drawing shows one example for this group:

![Diagram of tramway or funicular system]

**References**

*Informative references*

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

| Moving walkways | B66B 21/10 |

**B61B 10/00**

Power and free systems (ski lifts, sleigh lift or like trackless systems with guided towing cables only B61B 11/00)

**Definition statement**

*This place covers:*

Conveyors of the power-and-free type comprising a power line track and a free line track positioned conventionally below the power line rail. The power line rail is often provided with a driven chain on which the conveyor conventionally is engageable/disengageable.

Typical examples are:

- Railway vehicles of the towing type running on the ground.
- Railway vehicles rolling on the ground and guided by a track.
Following drawings show two examples for this group.

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

| Road vehicles carrying loads or passengers | B62D 1/26, B62D 1/28 |
| Conveyors                                 | B65G                   |

**B61B 11/00**

Ski lift, sleigh lift or like trackless systems with guided towing cables only

**Definition statement**

*This place covers:*

Transportation systems wherein the load is running trackless and guided/pulled by towing cables.
Following drawing shows one example for this group:

### B61B 12/00

**Component parts, details or accessories not provided for in groups B61B 7/00 - B61B 11/00 (railway brakes B61H; turntables B61J 1/06)**

**Definition statement**

*This place covers:*

All devices needed to make the cableway faster, safer and more comfortable.

Typical examples are:

- Ski lift radio.
- Vibration damping devices for the cable.
- Cleaning machines to clean ropes.
- Separators for chair lifts.
- Device for transporting a bicycle using a lift.
- Devices for easy entry to the cable car.
- Clamp force testing for cable grippers.
- Devices for monitoring the rotation of a guiding member in a ski lift.
- Devices to avoid derailment of a cable.
- Safety clamping devices for cableway.
- Guiding means for lateral deflection of the cable, see B61B 12/026.
- Guiding means for vertical deflection of the cable, see B61B 12/02.
Following drawing shows one example for this group:

References

Informative references

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

<table>
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<th>Topic</th>
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<tbody>
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<td>Acceleration for amusements devices</td>
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<td>Details of seats for railway vehicle</td>
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<td>Brakes for ropes</td>
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<td>Mining-hoist winding devices</td>
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<td>Ropers for tracks</td>
<td>E01B 25/18</td>
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<tr>
<td>Rope pulleys</td>
<td>F16H 55/46, F16H 55/50</td>
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</tbody>
</table>

B61B 13/00

Other railway systems

Definition statement

This place covers:

Other railway systems not provided in the groups B61B 3/00 - B61B 11/00.

Typical examples are:
- Railroad systems utilising multiple tracks.
- Air cushion transportation systems.
- Magnetic levitation propulsion systems.
- Evacuated tube transportation systems.
- Devices for contactless movement of transportation systems.
References

Informative references

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

<table>
<thead>
<tr>
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<tr>
<td>Propulsions</td>
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<td>Rails</td>
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<td>Pipe or tunnel systems</td>
<td>F16L 55/00</td>
</tr>
<tr>
<td>Circuit arrangements for transfer of electric power between ac networks and dc networks</td>
<td>H02J 5/00</td>
</tr>
</tbody>
</table>

B61B 15/00

Combinations of railway systems

Definition statement

This place covers:
Transportation systems with vertical/horizontal movement relative to the track and small vehicles for individual transport in cities which are coupled/guided for intercity transport on highways.

The following drawing shows one example for this group: