

| Symbol           | Typ                 | Titel                                                                                                                                                                        |
|------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>E</b>         | <b>Sektion</b>      | <b>SECTION E — FIXED CONSTRUCTIONS</b>                                                                                                                                       |
| <b>E01</b>       | <b>Untersektion</b> | <b>BUILDING</b>                                                                                                                                                              |
| <b>E01</b>       | <b>Klasse</b>       | <b>CONSTRUCTION OF ROADS, RAILWAYS, OR BRIDGES (of tunnels E21D)</b>                                                                                                         |
| <b>E01B</b>      | <b>Unterklasse</b>  | <b>PERMANENT WAY; PERMANENT-WAY TOOLS; MACHINES FOR MAKING RAILWAYS OF ALL KINDS (derailing or rerailling blocks on track, track brakes or retarders B61K)</b>               |
|                  |                     | <b><u>Structure of the permanent way for railways or tramways</u></b>                                                                                                        |
| <b>E01B 1/00</b> | <b>Hauptgruppe</b>  | <b>Ballastway; Other means for supporting the sleepers or the track; Drainage of the ballastway (draining by trenches, culverts, or conduits E01F 5/00)</b>                  |
| <b>E01B 2/00</b> | <b>Hauptgruppe</b>  | <b>General structure of permanent way (railway networks B61B 1/00; foundations for pavings E01C 3/00; foundations in general E02D)</b>                                       |
| <b>E01B 3/00</b> | <b>Hauptgruppe</b>  | <b>Transverse or longitudinal sleepers (for switches or crossings E01B 7/22); Other means resting directly on the ballastway for supporting rails</b>                        |
| E01B 3/02        | 1-Punkt Untergruppe | . made from wood (drying or impregnating B27K)                                                                                                                               |
| E01B 3/04        | 2-Punkt Untergruppe | . . Means for preventing cleaving                                                                                                                                            |
| E01B 3/06        | 3-Punkt Untergruppe | . . . Anti-cracking dogs                                                                                                                                                     |
| E01B 3/08        | 3-Punkt Untergruppe | . . . Straps or bands for hooping or encircling sleepers (apparatus for hooping wooden railway sleepers on the spot E01B 31/28)                                              |
| E01B 3/10        | 2-Punkt Untergruppe | . . Composite sleepers                                                                                                                                                       |
| E01B 3/12        | 2-Punkt Untergruppe | . . Longitudinal sleepers; Longitudinal sleepers integral or combined with tie-rods; Combined longitudinal and transverse sleepers                                           |
| E01B 3/14        | 2-Punkt Untergruppe | . . Slabs; Blocks; Fastening tie-rods to them                                                                                                                                |
| E01B 3/16        | 1-Punkt Untergruppe | . made from steel                                                                                                                                                            |
| E01B 3/18        | 2-Punkt Untergruppe | . . Composite sleepers                                                                                                                                                       |
| E01B 3/20        | 2-Punkt Untergruppe | . . Sleeper construction for special purposes, e.g. with openings for ballast working (sleepers for shiftable track for heavy loads E01B 23/12)                              |
| E01B 3/22        | 2-Punkt Untergruppe | . . Longitudinal sleepers; Longitudinal sleepers integral or combined with tie-rods; Combined longitudinal and transverse sleepers                                           |
| E01B 3/24        | 2-Punkt Untergruppe | . . Slabs; Blocks; Pot sleepers; Fastening tie-rods to them                                                                                                                  |
| E01B 3/26        | 2-Punkt Untergruppe | . . combined with inserts of wood, artificial stone, or other material                                                                                                       |
| E01B 3/28        | 1-Punkt Untergruppe | . made from concrete or from natural or artificial stone (manufacture B28)                                                                                                   |
| E01B 3/30        | 2-Punkt Untergruppe | . . Hollow sleepers                                                                                                                                                          |
| E01B 3/32        | 2-Punkt Untergruppe | . . with armouring or reinforcement (hollow sleepers E01B 3/30)                                                                                                              |
| E01B 3/34        | 3-Punkt Untergruppe | . . . with pre-tensioned armouring or reinforcement (pre-tensioned armouring or reinforcing elements E04C 5/00)                                                              |
| E01B 3/36        | 2-Punkt Untergruppe | . . Composite sleepers                                                                                                                                                       |
| E01B 3/38        | 2-Punkt Untergruppe | . . Longitudinal sleepers; Longitudinal sleepers integral or combined with tie-rods; Combined longitudinal and transverse sleepers; Layers of concrete supporting both rails |
| E01B 3/40        | 2-Punkt Untergruppe | . . Slabs; Blocks; Pot sleepers; Fastening tie-rods to them                                                                                                                  |

| Symbol           | Typ                 | Titel                                                                                                               |
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| E01B 3/42        | 2-Punkt Untergruppe | . . combined with inserts of wood or other material                                                                 |
| E01B 3/44        | 1-Punkt Untergruppe | . made from other materials only if the material is essential                                                       |
| E01B 3/46        | 1-Punkt Untergruppe | . made from different materials (E01B 3/26, E01B 3/42 take precedence)                                              |
| E01B 3/48        | 1-Punkt Untergruppe | . Distance keepers or tie-rods for sleepers                                                                         |
| <b>E01B 5/00</b> | <b>Hauptgruppe</b>  | <b>Rails; Guard rails (manufacture of rails B21B); Distance-keeping means for them</b>                              |
| E01B 5/02        | 1-Punkt Untergruppe | . Rails                                                                                                             |
| E01B 5/04        | 2-Punkt Untergruppe | . . Grooved rails                                                                                                   |
| E01B 5/06        | 2-Punkt Untergruppe | . . Reversible or invertible rails                                                                                  |
| E01B 5/08        | 2-Punkt Untergruppe | . . Composite rails; Compound rails with dismountable or non-dismountable parts                                     |
| E01B 5/10        | 3-Punkt Untergruppe | . . . Composite grooved rails; Inserts for grooved rails                                                            |
| E01B 5/12        | 2-Punkt Untergruppe | . . Rails with a foot serving as a sleeper                                                                          |
| E01B 5/14        | 2-Punkt Untergruppe | . . Rails for special parts of the track, e.g. for curves                                                           |
| E01B 5/16        | 1-Punkt Untergruppe | . Distance keepers                                                                                                  |
| E01B 5/18        | 1-Punkt Untergruppe | . Guard rails; Connecting, fastening or adjusting means therefor                                                    |
| <b>E01B 7/00</b> | <b>Hauptgruppe</b>  | <b>Switches; Crossings (operating mechanisms B61L)</b>                                                              |
| E01B 7/02        | 1-Punkt Untergruppe | . Tongues; Associated constructions                                                                                 |
| E01B 7/04        | 2-Punkt Untergruppe | . . Constructions with tongues turning about a vertical pivot at the end                                            |
| E01B 7/06        | 2-Punkt Untergruppe | . . Constructions with flexible tongues or flexible fishplates                                                      |
| E01B 7/08        | 2-Punkt Untergruppe | . . Other constructions of tongues, e.g. tilting about an axis parallel to the rail, movable tongue blocks or rails |
| E01B 7/10        | 1-Punkt Untergruppe | . Frogs                                                                                                             |
| E01B 7/12        | 2-Punkt Untergruppe | . . Fixed frogs made of one part or composite                                                                       |
| E01B 7/14        | 2-Punkt Untergruppe | . . with movable parts                                                                                              |
| E01B 7/16        | 2-Punkt Untergruppe | . . Jump-over frogs                                                                                                 |
| E01B 7/18        | 1-Punkt Untergruppe | . Combinations of switches and crossings                                                                            |
| E01B 7/20        | 1-Punkt Untergruppe | . Safety means for switches, e.g. switch point protectors, auxiliary or guiding rail members                        |
| E01B 7/22        | 1-Punkt Untergruppe | . Special sleepers for switches or crossings; Fastening means therefor                                              |
| E01B 7/24        | 1-Punkt Untergruppe | . Heating of switches                                                                                               |
| E01B 7/26        | 1-Punkt Untergruppe | . Lubricating of switches (lubricating of rails B61K 3/00)                                                          |
| E01B 7/28        | 1-Punkt Untergruppe | . Crossings                                                                                                         |
| E01B 7/30        | 2-Punkt Untergruppe | . . Jump-over crossings                                                                                             |
| <b>E01B 9/00</b> | <b>Hauptgruppe</b>  | <b>Fastening rails on sleepers, or the like (fastening rails to bridges E01D 19/12)</b>                             |
| E01B 9/02        | 1-Punkt Untergruppe | . Fastening rails, tie-plates, or chairs directly on sleepers or foundations; Means therefor                        |
| E01B 9/04        | 2-Punkt Untergruppe | . . Fastening on wooden or concrete sleepers or on masonry without clamp members                                    |

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| E01B 9/06 | 3-Punkt Untergruppe | . . . Railways spikes (nails in general F16B)                                                                         |
| E01B 9/08 | 4-Punkt Untergruppe | . . . . Elastic spikes                                                                                                |
| E01B 9/10 | 3-Punkt Untergruppe | . . . Screws or bolts for sleepers (screws or bolts in general F16B)                                                  |
| E01B 9/12 | 3-Punkt Untergruppe | . . . Retaining or locking devices for spikes or screws                                                               |
| E01B 9/14 | 3-Punkt Untergruppe | . . . Plugs, sleeves, thread linings, or other inserts for holes in sleepers (inserting plugs or sleeves E01B 31/26)  |
| E01B 9/16 | 4-Punkt Untergruppe | . . . . for wooden sleepers                                                                                           |
| E01B 9/18 | 4-Punkt Untergruppe | . . . . for concrete sleepers                                                                                         |
| E01B 9/20 | 3-Punkt Untergruppe | . . . by keys                                                                                                         |
| E01B 9/22 | 2-Punkt Untergruppe | . . Fastening on steel sleepers without clamp members                                                                 |
| E01B 9/24 | 3-Punkt Untergruppe | . . . by keys                                                                                                         |
| E01B 9/26 | 3-Punkt Untergruppe | . . . Welded fastenings                                                                                               |
| E01B 9/28 | 2-Punkt Untergruppe | . . Fastening on wooden or concrete sleepers or on masonry with clamp members                                         |
| E01B 9/30 | 3-Punkt Untergruppe | . . . by resilient steel clips                                                                                        |
| E01B 9/32 | 2-Punkt Untergruppe | . . Fastening on steel sleepers with clamp members                                                                    |
| E01B 9/34 | 3-Punkt Untergruppe | . . . by resilient steel clips                                                                                        |
| E01B 9/36 | 2-Punkt Untergruppe | . . Metal sole-plates for rails which rails are directly fastened to sleepers                                         |
| E01B 9/38 | 1-Punkt Untergruppe | . Indirect fastening of rails by using tie-plates or chairs; Fastening of rails on the tie-plates or in the chairs    |
| E01B 9/40 | 2-Punkt Untergruppe | . . Tie-plates for flat-bottom rails (manufacture thereof B21)                                                        |
| E01B 9/42 | 3-Punkt Untergruppe | . . . of two or more parts                                                                                            |
| E01B 9/44 | 2-Punkt Untergruppe | . . Fastening the rail on the tie-plate                                                                               |
| E01B 9/46 | 3-Punkt Untergruppe | . . . by clamps                                                                                                       |
| E01B 9/48 | 4-Punkt Untergruppe | . . . . by resilient steel clips                                                                                      |
| E01B 9/50 | 3-Punkt Untergruppe | . . . by keys                                                                                                         |
| E01B 9/52 | 4-Punkt Untergruppe | . . . . by resilient keys                                                                                             |
| E01B 9/54 | 2-Punkt Untergruppe | . . Rail chairs                                                                                                       |
| E01B 9/56 | 3-Punkt Untergruppe | . . . for rails with two or more treads                                                                               |
| E01B 9/58 | 2-Punkt Untergruppe | . . Fastening the rail in the chair                                                                                   |
| E01B 9/60 | 1-Punkt Untergruppe | . Rail fastenings making use of clamps or braces supporting the side or head of the rail                              |
| E01B 9/62 | 1-Punkt Untergruppe | . Rail fastenings incorporating resilient supports                                                                    |
| E01B 9/64 | 1-Punkt Untergruppe | . Rail fastenings gripping or encircling the sleeper                                                                  |
| E01B 9/66 | 1-Punkt Untergruppe | . Rail fastenings allowing the adjustment of the position of the rails, so far as not covered by the preceding groups |

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| E01B 9/68         | 1-Punkt Untergruppe | . Pads or the like, e.g. of wood, rubber, placed under the rail, tie-plate, or chair                       |
| <b>E01B 11/00</b> | <b>Hauptgruppe</b>  | <b>Rail joints (electrical connection of rails B60M 5/00)</b>                                              |
| E01B 11/02        | 1-Punkt Untergruppe | . Dismountable rail joints                                                                                 |
| E01B 11/04        | 2-Punkt Untergruppe | . . Flat fishplates                                                                                        |
| E01B 11/06        | 3-Punkt Untergruppe | . . . with keys or pins                                                                                    |
| E01B 11/08        | 2-Punkt Untergruppe | . . Angle fishplates                                                                                       |
| E01B 11/10        | 2-Punkt Untergruppe | . . Fishplates with parts supporting or surrounding the rail foot                                          |
| E01B 11/12        | 2-Punkt Untergruppe | . . Fishplates engaging only the rail foot                                                                 |
| E01B 11/14        | 2-Punkt Untergruppe | . . Rail foot flange clips in one piece                                                                    |
| E01B 11/16        | 2-Punkt Untergruppe | . . Fishplates for joining rails of different sections                                                     |
| E01B 11/18        | 2-Punkt Untergruppe | . . Fishplates for temporarily repairing broken rails                                                      |
| E01B 11/20        | 2-Punkt Untergruppe | . . with gap-bridging                                                                                      |
| E01B 11/22        | 3-Punkt Untergruppe | . . . by parts of the rails                                                                                |
| E01B 11/24        | 4-Punkt Untergruppe | . . . . with oblique or overlapping rail ends                                                              |
| E01B 11/26        | 4-Punkt Untergruppe | . . . . with interlocking rail ends                                                                        |
| E01B 11/28        | 3-Punkt Untergruppe | . . . by parts of the joining members                                                                      |
| E01B 11/30        | 4-Punkt Untergruppe | . . . . Fishplates with integral tread parts lying in the cross-section of the rail head                   |
| E01B 11/32        | 3-Punkt Untergruppe | . . . by separate parts; Inserts bridging both rail heads                                                  |
| E01B 11/34        | 4-Punkt Untergruppe | . . . . Auxiliary rail beside the gap                                                                      |
| E01B 11/36        | 2-Punkt Untergruppe | . . Fastening means for fishplates                                                                         |
| E01B 11/38        | 3-Punkt Untergruppe | . . . Locking arrangements for fastening means (locking means for nuts or bolts in general F16B)           |
| E01B 11/40        | 2-Punkt Untergruppe | . . Dismountable rail joints combined with welded parts                                                    |
| E01B 11/42        | 1-Punkt Untergruppe | . Joint constructions for relatively movable rails, e.g. rails on turntables, traversers, or swing bridges |
| E01B 11/44        | 1-Punkt Untergruppe | . Non-dismountable rail joints; Welded joints (welding methods B23K)                                       |
| E01B 11/46        | 2-Punkt Untergruppe | . . General methods for making gapless tracks                                                              |
| E01B 11/48        | 2-Punkt Untergruppe | . . Joints made by flame welding                                                                           |
| E01B 11/50        | 2-Punkt Untergruppe | . . Joints made by electric welding                                                                        |
| E01B 11/52        | 2-Punkt Untergruppe | . . Joints made by alumino-thermal welding                                                                 |
| E01B 11/54        | 1-Punkt Untergruppe | . Electrically-insulating rail joints                                                                      |
| E01B 11/56        | 1-Punkt Untergruppe | . Special arrangements for supporting rail ends (foot supports E01B 11/08-E01B 11/14)                      |
| E01B 11/58        | 2-Punkt Untergruppe | . . Bridge plates                                                                                          |
| E01B 11/60        | 3-Punkt Untergruppe | . . . with wedges                                                                                          |

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| E01B 11/62        | 2-Punkt Untergruppe | . . Bridge chairs (chairs E01B 9/54-E01B 9/58)                                                                                                                                                                                    |
| <b>E01B 13/00</b> | <b>Hauptgruppe</b>  | <b>Arrangements preventing shifting of the track</b>                                                                                                                                                                              |
| E01B 13/02        | 1-Punkt Untergruppe | . Rail anchors                                                                                                                                                                                                                    |
| <b>E01B 15/00</b> | <b>Hauptgruppe</b>  | <b>Guards for preventing a person's foot being trapped in grooved rails</b>                                                                                                                                                       |
| <b>E01B 17/00</b> | <b>Hauptgruppe</b>  | <b>Cattle guards connected to the permanent way (grids in general for preventing cattle from straying A01K 3/00)</b>                                                                                                              |
| <b>E01B 19/00</b> | <b>Hauptgruppe</b>  | <b>Protection of permanent way against development of dust or against the effect of wind, sun, frost, or corrosion; Means to reduce development of noise (snow fences E01F 7/02; snow-ploughs E01H 8/02; watering E01H 11/00)</b> |
| <b>E01B 21/00</b> | <b>Hauptgruppe</b>  | <b>Track superstructure specially adapted for tramways in paved streets (paving E01C 9/04, E01C 9/06)</b>                                                                                                                         |
| E01B 21/02        | 1-Punkt Untergruppe | . Special supporting means; Draining of rails                                                                                                                                                                                     |
| E01B 21/04        | 1-Punkt Untergruppe | . Special fastenings, joint constructions, or tie-rods                                                                                                                                                                            |
| <b>E01B 23/00</b> | <b>Hauptgruppe</b>  | <b>Easily dismountable or movable tracks, e.g. temporary railways; Details specially adapted therefor</b>                                                                                                                         |
| E01B 23/02        | 1-Punkt Untergruppe | . Tracks for light railways, e.g. for field, colliery, or mine use                                                                                                                                                                |
| E01B 23/04        | 2-Punkt Untergruppe | . . Fastening or joining means                                                                                                                                                                                                    |
| E01B 23/06        | 2-Punkt Untergruppe | . . Switches (turntables B60S, B61J); Portable switches; Turnouts                                                                                                                                                                 |
| E01B 23/08        | 1-Punkt Untergruppe | . Temporary tracks for use while repairing tramways                                                                                                                                                                               |
| E01B 23/10        | 1-Punkt Untergruppe | . Shiftable tracks for heavy loads, e.g. carrying excavators                                                                                                                                                                      |
| E01B 23/12        | 2-Punkt Untergruppe | . . Sleepers                                                                                                                                                                                                                      |
| E01B 23/14        | 2-Punkt Untergruppe | . . Fastening or joining means (fastening of rails by keys E01B 9/24)                                                                                                                                                             |
| E01B 23/16        | 2-Punkt Untergruppe | . . Switches                                                                                                                                                                                                                      |
| <b>E01B 25/00</b> | <b>Hauptgruppe</b>  | <b>Tracks for special kinds of railways (systems B61B; wheel tracks on roads E01C 9/02)</b>                                                                                                                                       |
| E01B 25/02        | 1-Punkt Untergruppe | . Tracks for rack railways                                                                                                                                                                                                        |
| E01B 25/04        | 2-Punkt Untergruppe | . . Rack rails; Supports or connections for rack rails                                                                                                                                                                            |
| E01B 25/06        | 2-Punkt Untergruppe | . . Switches; Frogs; Crossings                                                                                                                                                                                                    |
| E01B 25/08        | 1-Punkt Untergruppe | . Tracks for mono-rails with centre of gravity of vehicle above the load-bearing rail (E01B 25/30 takes precedence) [1, 7]                                                                                                        |
| E01B 25/10        | 2-Punkt Untergruppe | . . Mono-rails; Auxiliary balancing rails; Supports or connections for rails                                                                                                                                                      |
| E01B 25/12        | 2-Punkt Untergruppe | . . Switches; Crossings                                                                                                                                                                                                           |
| E01B 25/14        | 1-Punkt Untergruppe | . Tracks for cable-drawn railway vehicles                                                                                                                                                                                         |
| E01B 25/15        | 2-Punkt Untergruppe | . . Switches; Crossings                                                                                                                                                                                                           |
| E01B 25/16        | 1-Punkt Untergruppe | . Tracks for aerial rope railways with a stationary rope                                                                                                                                                                          |
| E01B 25/18        | 2-Punkt Untergruppe | . . Ropes; Supports, fastening or straining means for ropes (ropes in general D07B; masts E04H 12/00; rope sockets F16G)                                                                                                          |
| E01B 25/20        | 2-Punkt Untergruppe | . . Switches; Crossings                                                                                                                                                                                                           |
| E01B 25/22        | 1-Punkt Untergruppe | . Tracks for railways with the vehicle suspended from rigid supporting rails                                                                                                                                                      |

| Symbol            | Typ                 | Titel                                                                                                                                                                                                                                                                                                                                                                            |
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| E01B 25/24        | 2-Punkt Untergruppe | . . Supporting rails; Auxiliary balancing rails; Supports or connections for rails                                                                                                                                                                                                                                                                                               |
| E01B 25/26        | 2-Punkt Untergruppe | . . Switches; Crossings                                                                                                                                                                                                                                                                                                                                                          |
| E01B 25/28        | 1-Punkt Untergruppe | . Rail tracks for guiding vehicles when running on road or similar surface (wheel tracks on roads E01C 9/02)                                                                                                                                                                                                                                                                     |
| E01B 25/30        | 1-Punkt Untergruppe | . Tracks for magnetic suspension or levitation vehicles [7]                                                                                                                                                                                                                                                                                                                      |
| E01B 25/32        | 2-Punkt Untergruppe | . . Stators, guide rails or slide rails [7]                                                                                                                                                                                                                                                                                                                                      |
| E01B 25/34        | 2-Punkt Untergruppe | . . Switches; Frogs; Crossings [7]                                                                                                                                                                                                                                                                                                                                               |
| <b>E01B 26/00</b> | <b>Hauptgruppe</b>  | <b>Tracks or track components not covered by any one of main groups E01B 1/00-E01B 25/00</b><br><b><u>Making, maintaining, renewing, or taking-up the ballastway or the track; Tools or machines specially designed therefor (derailing or rerailing of machines B61K 5/00; removal of foreign matter from the permanent way, vegetation control, applying liquids E01H)</u></b> |
| <b>E01B 27/00</b> | <b>Hauptgruppe</b>  | <b>Placing, renewing, working, cleaning, or taking-up the ballast, with or without concurrent work on the track; Devices therefor; Packing sleepers</b>                                                                                                                                                                                                                          |
| E01B 27/02        | 1-Punkt Untergruppe | . Placing the ballast; Making the ballastway; Redistributing ballasting material; Machines or devices therefor; Levelling means                                                                                                                                                                                                                                                  |
| E01B 27/04        | 1-Punkt Untergruppe | . Removing the ballast; Machines therefor, whether or not additionally adapted for taking-up ballast (E01B 27/06, E01B 27/12 take precedence; redistributing ballasting material E01B 27/02)                                                                                                                                                                                     |
| E01B 27/06        | 1-Punkt Untergruppe | . Renewing or cleaning the ballast <u>in situ</u> , with or without concurrent work on the track                                                                                                                                                                                                                                                                                 |
| E01B 27/08        | 2-Punkt Untergruppe | . . the track having been taken-up (E01B 27/11 takes precedence)                                                                                                                                                                                                                                                                                                                 |
| E01B 27/10        | 2-Punkt Untergruppe | . . without taking-up the track (E01B 27/11 takes precedence)                                                                                                                                                                                                                                                                                                                    |
| E01B 27/11        | 2-Punkt Untergruppe | . . combined with concurrent renewal of track components                                                                                                                                                                                                                                                                                                                         |
| E01B 27/12        | 1-Punkt Untergruppe | . Packing sleepers, with or without concurrent work on the track; Compacting track-carrying ballast                                                                                                                                                                                                                                                                              |
| E01B 27/13        | 2-Punkt Untergruppe | . . Packing sleepers, with or without concurrent work on the track (preforming ballast cores or seats for sleepers E01B 27/02)                                                                                                                                                                                                                                                   |
| E01B 27/14        | 3-Punkt Untergruppe | . . . Manual tools or hand-held power tools therefor                                                                                                                                                                                                                                                                                                                             |
| E01B 27/16        | 3-Punkt Untergruppe | . . . Machines therefor, e.g. so-called sleeper-tamping machines                                                                                                                                                                                                                                                                                                                 |
| E01B 27/17        | 4-Punkt Untergruppe | . . . . combined with means for lifting, levelling, or slewing the track                                                                                                                                                                                                                                                                                                         |
| E01B 27/18        | 3-Punkt Untergruppe | . . . by introducing additional fresh material under the sleepers, e.g. by the measured-shovel method, by the blowing method                                                                                                                                                                                                                                                     |
| E01B 27/20        | 2-Punkt Untergruppe | . . Compacting the material of the track-carrying ballastway, e.g. by vibrating the track, by surface vibrators ( of trackless ballastway E01B 27/02; for packing sleepers E01B 27/12)                                                                                                                                                                                           |
| <b>E01B 29/00</b> | <b>Hauptgruppe</b>  | <b>Laying, rebuilding, or taking-up tracks; Tools or machines therefor (E01B 27/00, E01B 31/00 take precedence)</b>                                                                                                                                                                                                                                                              |
| E01B 29/02        | 1-Punkt Untergruppe | . Transporting, laying, removing, or renewing lengths of assembled track, assembled switches, or assembled crossings (E01B 29/04 takes precedence)                                                                                                                                                                                                                               |
| E01B 29/04        | 1-Punkt Untergruppe | . Lifting or levelling of tracks (lifting devices in general B66F)                                                                                                                                                                                                                                                                                                               |
| E01B 29/05        | 1-Punkt Untergruppe | . Transporting, laying, removing, or renewing both rails and sleepers (as assembled units E01B 29/02)                                                                                                                                                                                                                                                                            |
| E01B 29/06        | 1-Punkt Untergruppe | . Transporting, laying, removing, or renewing sleepers (E01B 29/05 takes precedence; carrying devices B65G 7/12)                                                                                                                                                                                                                                                                 |
| E01B 29/09        | 2-Punkt Untergruppe | . . under, or from under, installed rails                                                                                                                                                                                                                                                                                                                                        |

| Symbol            | Typ                 | Titel                                                                                                                                                                                                                                                                                                                         |
|-------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E01B 29/10        | 3-Punkt Untergruppe | . . . for inserting or removing sleepers                                                                                                                                                                                                                                                                                      |
| E01B 29/11        | 4-Punkt Untergruppe | . . . . Removal involving destruction of the sleeper, e.g. the sectioning thereof                                                                                                                                                                                                                                             |
| E01B 29/13        | 3-Punkt Untergruppe | . . . for moving sleepers in a direction parallel to the rails, e.g. for spacing or aligning them (E01B 29/10 takes precedence)                                                                                                                                                                                               |
| E01B 29/14        | 3-Punkt Untergruppe | . . . for lifting sleepers up to the rails (lifting devices in general B66F)                                                                                                                                                                                                                                                  |
| E01B 29/16        | 1-Punkt Untergruppe | . Transporting, laying, removing, or replacing rails; Moving rails placed on sleepers in the track (E01B 29/05 takes precedence; moving or tilting heavy loads in general B65G 7/00)                                                                                                                                          |
| E01B 29/17        | 2-Punkt Untergruppe | . . Lengths of rails assembled into strings, e.g. welded together                                                                                                                                                                                                                                                             |
| E01B 29/20        | 2-Punkt Untergruppe | . . Moving rails placed on installed sleepers in the plane of the track                                                                                                                                                                                                                                                       |
| E01B 29/22        | 2-Punkt Untergruppe | . . Raising rails from sleepers, e.g. for inserting sole-plates (lifting devices in general B66F)                                                                                                                                                                                                                             |
| E01B 29/24        | 1-Punkt Untergruppe | . Fixing or removing detachable fastening means or accessories thereof; Pre-assembling track components by detachable fastening means (E01B 29/02, E01B 31/26 take precedence)                                                                                                                                                |
| E01B 29/26        | 2-Punkt Untergruppe | . . the fastening means being spikes (E01B 29/16 takes precedence; hand-held tools for nail or staple driving or extracting B25C)                                                                                                                                                                                             |
| E01B 29/28        | 2-Punkt Untergruppe | . . the fastening means being of screw-and-nut type (portable apparatus for fixing or removing screws or the like B25B); Apparatus therefor, adapted to additionally drilling holes                                                                                                                                           |
| E01B 29/29        | 3-Punkt Untergruppe | . . . for horizontally-arranged fastening elements, e.g. fish-bolts                                                                                                                                                                                                                                                           |
| E01B 29/32        | 1-Punkt Untergruppe | . Installing or removing track components, not covered by the preceding groups, e.g. sole-plates, rail anchors (E01B 31/26 takes precedence)                                                                                                                                                                                  |
| E01B 29/40        | 1-Punkt Untergruppe | . Means or arrangements for temporarily supporting laid tracks, or rails or sleepers in the track (temporary fishplates E01B 11/18)                                                                                                                                                                                           |
| E01B 29/42        | 1-Punkt Untergruppe | . Undetachably joining or fastening track components in or on the track, e.g. by welding, by gluing; Pre-assembling track components by gluing; Sealing joints with filling components (E01B 31/26 takes precedence; independent heating means E01B 31/18; welding in general B23K; gluing metal parts in general F16B 11/00) |
| E01B 29/44        | 2-Punkt Untergruppe | . . Methods for effecting joining of rails in the track, e.g. taking account of ambient temperature                                                                                                                                                                                                                           |
| E01B 29/46        | 2-Punkt Untergruppe | . . Devices for holding, positioning, or urging together the rail ends (adjusting the joint by moving rails E01B 29/20)                                                                                                                                                                                                       |
| <b>E01B 31/00</b> | <b>Hauptgruppe</b>  | <b>Working rails, sleepers, baseplates, or the like, in or on the line; Machines, tools, or auxiliary devices specially designed therefor (characterised by features independent of use on assembled track B21, B23-B25, B27)</b>                                                                                             |
| E01B 31/02        | 1-Punkt Untergruppe | . Working rail or other metal track components on the spot                                                                                                                                                                                                                                                                    |
| E01B 31/04        | 2-Punkt Untergruppe | . . Sectioning or slitting, e.g. by sawing, shearing, flame-cutting                                                                                                                                                                                                                                                           |
| E01B 31/06        | 2-Punkt Untergruppe | . . Making holes, e.g. by drilling, punching, flame-cutting                                                                                                                                                                                                                                                                   |
| E01B 31/08        | 2-Punkt Untergruppe | . . Bending, e.g. for straightening rails or rail joints (for aligning rail ends to be welded E01B 29/46)                                                                                                                                                                                                                     |
| E01B 31/12        | 2-Punkt Untergruppe | . . Removing metal from rails, rail joints, or baseplates, e.g. for deburring welds, reconditioning worn rails                                                                                                                                                                                                                |
| E01B 31/13        | 3-Punkt Untergruppe | . . . by milling                                                                                                                                                                                                                                                                                                              |
| E01B 31/15        | 3-Punkt Untergruppe | . . . by planing or filing                                                                                                                                                                                                                                                                                                    |
| E01B 31/17        | 3-Punkt Untergruppe | . . . by grinding                                                                                                                                                                                                                                                                                                             |

| Symbol            | Typ                 | Titel                                                                                                                                                                                                                                                     |
|-------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E01B 31/18        | 2-Punkt Untergruppe | . . Reconditioning or repairing worn or damaged parts on the spot, e.g. applying inlays, building-up rails by welding (E01B 31/04-E01B 31/12 take precedence); Heating or cooling of parts on the spot, e.g. for reducing joint gaps, for hardening rails |
| E01B 31/20        | 1-Punkt Untergruppe | . Working or treating non-metal sleepers in or on the line, e.g. marking, creosoting (working metal sleepers E01B 31/02)                                                                                                                                  |
| E01B 31/22        | 2-Punkt Untergruppe | . . Cutting or grinding wooden sleepers, e.g. for forming rail seats (E01B 31/24 takes precedence)                                                                                                                                                        |
| E01B 31/23        | 3-Punkt Untergruppe | . . . Sectioning (combined with removal of segments from track E01B 29/11)                                                                                                                                                                                |
| E01B 31/24        | 2-Punkt Untergruppe | . . Forming, treating, reconditioning, or cleaning holes in sleepers; Drilling-templates (E01B 29/28, E01B 31/26 take precedence)                                                                                                                         |
| E01B 31/26        | 2-Punkt Untergruppe | . . Inserting or removing inserts or fillings for holes in sleepers, e.g. plugs, sleeves                                                                                                                                                                  |
| E01B 31/28        | 2-Punkt Untergruppe | . . Applying or removing anti-splitting or like reinforcing means (E01B 31/26 takes precedence; straps or bands therefor E01B 3/08)                                                                                                                       |
| <b>E01B 33/00</b> | <b>Hauptgruppe</b>  | <b>Machines or devices for shifting tracks, with or without lifting, e.g. for aligning track, for shifting excavator track (combined with sleeper packing machines E01B 27/17)</b>                                                                        |
| E01B 33/02        | 1-Punkt Untergruppe | . for slewing, i.e. transversely shifting, in steps                                                                                                                                                                                                       |
| E01B 33/04        | 2-Punkt Untergruppe | . . Manual tools; Devices not mounted on vehicles                                                                                                                                                                                                         |
| E01B 33/06        | 1-Punkt Untergruppe | . for slewing in a continuous operation, e.g. for tracks which carry excavators                                                                                                                                                                           |
| E01B 33/08        | 2-Punkt Untergruppe | . . Boom track-slewing machines                                                                                                                                                                                                                           |
| E01B 33/10        | 2-Punkt Untergruppe | . . Bridge track-slewing machines                                                                                                                                                                                                                         |
| E01B 33/12        | 2-Punkt Untergruppe | . . Combined boom and bridge track-slewing machines                                                                                                                                                                                                       |
| E01B 33/18        | 2-Punkt Untergruppe | . . Details not peculiar to a particular type of machine                                                                                                                                                                                                  |
| E01B 33/21        | 3-Punkt Untergruppe | . . . Arrangement or construction of rollers moving the rails                                                                                                                                                                                             |
| <b>E01B 35/00</b> | <b>Hauptgruppe</b>  | <b>Applications of measuring apparatus or devices for track-building purposes (apparatus on locomotives or cars to indicate or record bad track sections B61K 9/00; measuring angles, linear dimensions, or irregularities in general G01B, G01C)</b>     |
| E01B 35/02        | 1-Punkt Untergruppe | . for spacing; for cross levelling; for laying-out curves                                                                                                                                                                                                 |
| E01B 35/04        | 2-Punkt Untergruppe | . . Wheeled apparatus                                                                                                                                                                                                                                     |
| E01B 35/06        | 1-Punkt Untergruppe | . for measuring irregularities in longitudinal direction                                                                                                                                                                                                  |
| E01B 35/08        | 2-Punkt Untergruppe | . . for levelling                                                                                                                                                                                                                                         |
| E01B 35/10        | 2-Punkt Untergruppe | . . for aligning                                                                                                                                                                                                                                          |
| E01B 35/12        | 1-Punkt Untergruppe | . for measuring movement of the track or of components thereof under rolling loads, e.g. depression of sleepers, increase of gauge                                                                                                                        |
| <b>E01B 37/00</b> | <b>Hauptgruppe</b>  | <b>Making, maintaining, renewing, or taking-up the ballastway or the track, not provided for in a single one of groups E01B 27/00-E01B 35/00</b>                                                                                                          |