

IPC

国际专利分类表

Section E

建筑、采矿

科学技术文献出版社

国际专利分类表第一部—建筑、采矿

(附国内发行)

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出版说明

1954年12月19日英、法、意、荷等15个国家在巴黎签定了“国际专利分类欧洲协定”(European Convention on the International Classification of Patent for Invention), 由此而建立了国际专利分类体系。第一版国际专利分类表于1968年9月1日生效。第二版于1974年7月1日起生效。为进一步在世界范围内推广采用国际专利分类法, 继欧洲协定之后, 1971年3月于法国斯特拉斯堡又签定了一项“关于国际专利分类法的斯特拉斯堡协定”(Strasbourg Agreement concerning the IPC)。

负责研究修订国际专利分类法的部门是由世界知识产权组织(WIPO)和欧洲理事会双方代表组成的联合专门委员会(The Joint ad hoc Committee of the Council of Europe and WIPO on the IPC)。规定每五年修订一次。

现在, 大多数实行专利制度的国家已相继采用国际专利分类法, 有些国家是与本国的分类法并用。因此, 《国际专利分类表》是检索国外专利资料的重要工具。

过去只出版过译至二级类目的中文简表。为贯彻毛主席关于“洋为中用”的指示, 根据广大读者查找国外专利资料的需要, 我们组织有关单位翻译了第二版《国际专利分类表》。此版本各国专利局于1975年1月1日起开始采用。原版是Morgan-Grampian公司出版的法定正式文本的英文版。

全书按该分类表A到H八个部分成八个分册出版。各分册按次为: A. 日常生活必需品; B. 各种作业和设备; 运输; C. 化工、冶金; D. 纺织、造纸; E. 建筑、采矿; F. 机械、照明、加热、武器、爆破; G. 物理; H. 电学。

本书是E部, 供检索建筑和采矿方面专利资料用。参加本分册翻译工作的有国家建委建筑科学研究所和煤炭工业部煤炭科学研究院。在此谨向大力协助和积极支持此分册出版工作的上述单位表示感谢。

由于水平所限, 在编辑工作中定会有许多错误或不妥之处, 敬请读者批评指正。

编者

1978年9月

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G	保险箱或保险库; 银行用的保险装置; 交易小室的安全装置	(138)	G	Safes or strong-rooms for valuables; Bank protection devices; Safety transaction partitions	(138)
E 06	一般门、窗、百叶窗或卷窗、梯子	(140)	E 06	DOORS, WINDOWS, SHUTTERS OR ROLLER BLINDS, IN GENERAL; LADDERS	(140)
E 06 B	在建筑物、车辆、篷篷或类似的围护结构的开口处用的固定式或移动式的关闭装置, 如门、窗、百叶窗、大门	(140)	E 06 B	Fixed or movable closures for openings in buildings, vehicles, fences or like enclosures in general, e.g. doors, windows, blinds, gates	(140)
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分 部: 采 矿

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C	采矿或采石的机械或方法	(163)	C	Machinery for, or methods of, mining or quarrying	(163)
D	井筒; 巷道; 平峒及它们的衬砌	(174)	D	Shafts; Galleries; Tunnels; Linings therefor	(174)
F	矿井或平峒的安全装置、运输、充填、救护、通风或排水	(181)	F	Safety devices, transport, filling-up, rescue, ventilation or drainage in or of mines or tunnels	(181)

建筑

E 01 公路、铁路及桥梁建筑

E 01 B 永久性道路；永久性道路施工用具；铺设各种铁路的机械
(脱轨及上轨器，铁轨制动器或减速器入B61K)

小类索引

永久性道路结构 2/00
一般结构 1/00, 3/00
道碴，纵横轨枕 5/00至13/00, 26/00
一般用途的铁路或转辙器 21/00至26/00
特种用途的铁路或转辙器 15/00至19/00
防护措施 27/00至37/00
石碴或轨道的铺设，养护，翻新或提升

铁路和电车道用永久性道路的结构

1/00 石碴路；支撑轨枕或轨道的其他方式；石碴路的排水（采用排水沟涵或管道入E01 F5/00）
2/00 永久性道路的一般结构（铁路网入B61B1/00；基础本身入E01D

BUILDING

E 01 CONSTRUCTION OF ROADS, RAILWAYS AND BRIDGES

E 01 B PERMANENT WAY; PERMANENT WAY TOOLS; MACHINES FOR MAKING RAILWAYS OF ALL KINDS (derailing or rerailing blocks on track, track brakes or retarders B 61 K)

Sub-class index

STRUCTURE OF THE PERMANENT WAY

General structure 2/00
Ballastway, transverse or longitudinal sleepers 1/00, 3/00
Rails or switches for general application 5/00 to 13/00, 26/00
Rails or switches for particular application 21/00 to 26/00
ion
Protective arrangements 15/00 to 19/00
MAKING, MAINTAINING, RENEWING, OR TAKING-UP THE BALLASTWAY OR THE TRACK 27/00 to 37/00

Structure of the permanent way for railways or tramways

1/00 Ballastway; Other means for supporting the sleepers or the track; Drainage of the ballastway (draining by trenches, culverts, or conduits E 01 F 5/00)
2/00 General structure of permanent way (railway networks

3/00, E02D27/00)		B 61 B 1/00; foundations per se E 01 D 3/00, E 02 D 27/00)
3/00	纵横轨枕 (转辙或交叉入7/22); 直接支在石碴上的支撑轨道用的其他措施	Transverse or longitudinal sleepers (for switches or crossings 7/22); Other means resting directly on the ballastway for supporting rails
3/02	• 木枕 (干燥或浸渍处理入B27K)	• made from wood (drying or impregnating B 27 K)
3/04	• • 防止开裂的方法	• • Means for preventing cleaving
3/06	• • • 防止开裂的扒钉	• • • Anti-cracking dogs
3/08	• • • 箍紧枕木的铁皮条或带 (现场箍紧枕木的用具入31/28)	• • • Straps or bands for hooping or encircling sleepers (apparatus for hooping wooden railway sleepers on the spot 31/28)
3/10	• • 组合轨枕	• • Composite sleepers
3/12	• • 纵轨枕; 与系杆构成整体的纵轨枕; 纵横组合的轨枕	• • Longitudinal sleepers; Longitudinal sleepers integral or combined with tie-rods; Combined longitudinal and transverse sleepers
3/14	• • 板; 块; 连接板块的系杆	• • Slabs; Blocks; Fastening tie-rods to them
3/16	• 钢枕	• made from steel
3/18	• • 组合轨枕	• • Composite sleepers
3/20	• • 特殊用途的轨枕结构, 如铺设石碴路用的开口轨枕 (重荷载可变换轨道的轨枕入23/12)	• • Sleeper construction for special purposes, e.g. with openings for ballast working (sleepers for shiftable track for heavy loads 23/12)
3/22	• • 纵枕; 与系杆连成整体的纵枕; 纵横结合的轨枕	• • Longitudinal sleepers; Longitudinal sleepers integral or combined with tie-rods; Combined longitudinal and transverse sleepers
3/24	• • 板; 块; 带穴轨枕; 连接系杆	• • Slabs; Blocks; Pot sleepers; Fastening tie-rods to them
3/26	• • 用木楔、人工石或其他材料组合的轨枕	• • combined with inserts of wood, artificial stone, or other material
3/28	• 混凝土、天然石或人工石轨枕 (制造入B28)	• made from concrete or from natural or artificial stone (manufacture B 28)
3/30	• • 空心枕	• • Hollow sleepers
3/32	• • 加护套或钢筋 (空心枕入3/30)	• • with armouring or reinforcement (hollow sleepers 3/30)
3/34	• • • 加预应力的护套或钢筋 (预应力构件入E04C5/00)	• • • with pre-tensioned armouring or reinforcement

3/36	• • 组合轨枕	3/36	• • Composite sleepers
3/38	• • 纵枕; 与系杆组成整体的纵枕; 纵横组合轨枕; 支撑两个轨道的混凝土层	3/38	• • Longitudinal sleepers; Longitudinal sleepers integral or combined with tie-rods; Combined longitudinal and transverse sleepers; Layers or concrete supporting both rails
3/40	• • 板; 块; 带穴轨枕; 连接系杆	3/40	• • Slabs; Blocks; Pot sleepers; Fastening tie-rods to them
3/42	• • 用木楔或其他材料组合的轨枕	3/42	• • combined with inserts of wood or other material
3/44	• • 用其他材料为主制成的轨枕	3/44	• • made from other materials only if the material is essential
3/46	• • 用不同材料制的轨枕 (3/26, 3/42优先)	3/46	• • made from different materials (3/26, 3/42 take precedence)
3/48	• 定矩螺栓或轨枕系杆	3/48	• Distance keepers or tie-rods for sleepers
5/00	铁路; 护轨 (铁轨制连入B21B); 定距设备	5/00	Rails; Guard rails (manufacture of rails B 21 B); Distance-keeping means for them
5/02	• 轨条	5/02	• Rails
5/04	• • 槽形轨	5/04	• • Grooved rails
5/06	• • 可倒转的轨条	5/06	• • Reversible or invertible rails
5/08	• • 组合轨条; 带可拆卸或不可拆卸构件的组合轨条	5/08	• • Composite rails; Compound rails with dismountable or non-dismountable parts
5/10	• • 组合槽形枕; 槽形轨用的插件	5/10	• • Composite grooved rails; Inserts for grooved rails
5/12	• • 作轨枕的带脚轨条	5/12	• • Rails with a foot serving as a sleeper
5/14	• • 轨道特殊部分用的轨条, 如曲线轨	5/14	• • Rails for special parts of the track, e. g. for curves
5/16	• 定距螺栓	5/16	• Distance keepers
5/18	• 护轨; 连接, 固定或调节设备	5/18	• Guard rails; Connecting, fastening or adjusting means therefor
7/00	转辙器; 交叉道 (操作机械入B61L)	7/00	Switches; Crossings (operating mechanisms B 61 L)
7/02	• 尖轨; 联合结构	7/02	• Tongues; Associated constructions
7/04	• • 围绕末端竖轴旋转的尖轨结构	7/04	• • Constructions with tongues turning about a vertical pivot at the end

7/06	• 柔性尖轨或柔性鱼尾板结构	7/06	• constructions with flexible tongues or flexible fishplates
7/08	• 其他尖轨的结构, 如围着轴转的, 与轨条平行的尖轨; 活动式尖轨砌块或轨条	7/08	• Other constructions of tongues, e. g. tilting about an axis parallel to the rail, movable tongue blocks or rails
7/10	• 辙叉	7/10	• Frogs
7/12	• 用一部分复合材料制的固定辙叉	7/12	• Fixed frogs made of one part of composite
7/14	• 有活动构件的辙叉	7/14	• with movable parts
7/16	• 临时辙叉	7/16	• Jump-over frogs
7/18	• 转辙器和交道叉的组合结构	7/18	• Combinations of switches and crossings
7/20	• 转辙器的安全措施, 如, 辙尖保护器, 辅助或导轨构件	7/20	• Safety means for switches, e. g. switch point protectors, auxiliary or guiding rail members
7/22	• 转辙器或道叉用的特殊轨枕; 及其连接装置	7/22	• Special sleepers for switches or crossings; Fastening means therefor
7/24	• 转辙器的加热	7/24	• Heating of switches
7/26	• 转辙器的润滑 (轨条润滑入 B 61 K 3/00)	7/26	• Lubricating of switches (lubricating of rails B 61 K 3/00)
7/28	• 交道叉	7/28	• Crossings
7/30	• 临时交道叉	7/30	• Jump-over crossings
9/00	轨枕上固定轨条 (固定于桥梁上的轨条入 E 01 D 19/12)	9/00	Fastening rails on sleepers, etc. (fastening rails to bridges E 01 D 19/12)
9/02	• 固定轨条, 系板或直接放在轨枕或基础上的轨座; 及其用的设备	9/02	• Fastening rails, tie-plates, or chairs directly on sleepers or foundations; Means therefor
9/04	• 不用夹具固定在木、混凝土或砖石基础上的轨枕	9/04	• Fastening on wooden or concrete sleepers or on masonry without clamp members
9/06	• 道钉 (一般钉子入 F 16 B)	9/06	• Railway spikes (nails in general F 16 B)
9/08	• 弹性道钉	9/08	• Elastic spikes
9/10	• 轨枕用的螺丝和螺栓 (一般螺丝和螺栓入 F 16 B)	9/10	• Screws or bolts for sleepers (screws or bolts in general F 16 B)
9/12	• 道钉或螺丝用的制动装置	9/12	• Retaining or locking devices for spikes or screws
9/14	• 轨枕洞用的塞子、套筒、螺纹衬垫或其他插件 (插塞或套筒入 31/26)	9/14	• Plugs, sleeves, thread linings, or other inserts for holes in sleepers (inserting plugs or sleeves 31/26)
9/16	• 木枕用的	9/16	• for wooden sleepers

9/18	• • • 混凝土枕用的	9/18	• • • 用于混凝土轨枕
9/20	• • • 用销子固接	9/20	• • • 用销子固接
9/22	• • • 不用夹具固定钢枕	9/22	• • • 不用夹具固定钢枕
9/24	• • • 用销子固接	9/24	• • • 用销子固接
9/26	• • • 焊接固定	9/26	• • • 焊接固定
9/28	• • • 用夹具固定木枕或混凝土枕或碎石枕	9/28	• • • 用夹具固定木枕或混凝土枕或碎石枕
9/30	• • • 用弹性钢夹具	9/30	• • • 用弹性钢夹具
9/32	• • • 用夹具固定钢枕	9/32	• • • 用夹具固定钢枕
9/34	• • • 用弹性钢夹具	9/34	• • • 用弹性钢夹具
9/36	• • • 直接固定于轨枕上的轨条用金属底板	9/36	• • • 直接固定于轨枕上的轨条用金属底板
9/38	• • • 不直接固定而通过连系板或轨座固定的轨条，与连系板或轨座固定的轨条	9/38	• • • 不直接固定而通过连系板或轨座固定的轨条，与连系板或轨座固定的轨条
9/40	• • • 平底轨用的连系板（制造人B21）	9/40	• • • 平底轨用的连系板（制造人B21）
9/42	• • • 两个或更多构件	9/42	• • • 两个或更多构件
9/44	• • • 固定于连系板上的轨条	9/44	• • • 固定于连系板上的轨条
9/46	• • • 用夹具固接	9/46	• • • 用夹具固接
9/48	• • • 用弹性钢夹具固定	9/48	• • • 用弹性钢夹具固定
9/50	• • • 用销子固定	9/50	• • • 用销子固定
9/52	• • • 用弹性销子固定	9/52	• • • 用弹性销子固定
9/54	• • • 轨座	9/54	• • • 轨座
9/56	• • • 带两个或更多轨面的轨条用的	9/56	• • • 带两个或更多轨面的轨条用的
9/58	• • • 固定在轨座上的轨条	9/58	• • • 固定在轨座上的轨条
9/60	• • • 采用夹具或撑杆支撑轨头或护栏的轨条扣件	9/60	• • • 采用夹具或撑杆支撑轨头或护栏的轨条扣件
9/62	• • • 带弹性支撑的轨条扣件	9/62	• • • 带弹性支撑的轨条扣件
9/64	• • • 夹住或捆紧轨枕用的轨条扣件	9/64	• • • 夹住或捆紧轨枕用的轨条扣件
9/66	• • • 可以调整轨条位置的轨条扣件（前一组内所没包括的入此）	9/66	• • • 可以调整轨条位置的轨条扣件（前一组内所没包括的入此）
9/68	• • • 垫或类似物，如置于轨条、连系板或轨座之下的木垫、橡胶垫	9/68	• • • 垫或类似物，如置于轨条、连系板或轨座之下的木垫、橡胶垫

11/00	轨条的接头 (轨条的电气接合入 B60M5/00)	11/00	der the rail, tieplate, or chair
11/02	· 可拆卸的轨条接头	11/02	Rail joints (electrical connection of rails B 60 M 5/00)
11/04	· 平鱼尾板	11/02	· Dismountable rail joints
11/06	· 带销子或钉销的	11/04	· Flat fishplates
11/08	· 角钢鱼尾板	11/06	· . . . with keys or pins
11/10	· 能支撑或围绕轨脚的鱼尾板	11/08	· Angle fishplates
11/12	· 仅与轨脚接合的鱼尾板	11/10	· Fishplates with parts supporting or surrounding the rail foot
11/14	· 整体的轨脚翼缘钢夹	11/12	· Fishplates engaging only the rail foot
11/16	· 连接不同节段轨条用的鱼尾板	11/14	· Rail foot flange clips in one piece
11/18	· 临时维修断裂轨条用的鱼尾板	11/16	· Fishplates for joining rails of different sections
11/20	· 有间断桥的	11/18	· Fishplates for temporarily repairing broken rails
11/22	· 用轨条构件的	11/20	· with gap-bridging
11/24	· 轨条末端斜交或搭接	11/22	· . . . by parts of the rail
11/26	· 轨条末端扣搭	11/24	· . . . with oblique or overlapping rail ends
11/28	· 用连接构件的部分	11/26	· . . . with interlocking rail ends
11/30	· 在铁轨端头交叉部分的下面设有主要踏步构件的鱼尾板	11/28	· . . . by parts of the joining members
11/32	· 用分开的构件, 连接两个轨条端头的插入件	11/30	· . . . Fishplates with integral tread parts lying in the cross section of the rail head
11/34	· 在缝隙旁边的辅助轨条	11/32	· . . . by separate parts; inserts bridging both rail heads
11/36	· 鱼尾板用的固定措施	11/34	· . . . Auxiliary rail beside the gap
11/38	· 固定措施的连锁装置 (一般螺母或螺栓的连锁措施入 F 16 B)	11/36	· Fastening means for fishplates
11/40	· 与焊接件连在一起的可拆卸的轨条接头	11/38	· . . . Locking arrangements for fastening means (locking means for nuts or bolts in general F 16 B)
11/42	· 相对活动轨条, 如旋转台上、转盘上或悬索桥上的轨条的接头	11/40	· Dismountable rail joints combined with welded parts
11/44	· 不可拆卸的轨条接头; 焊接接头 (焊接方法入 B23K)	11/42	· Joint constructions for relatively movable rails, e. g. rails on turntables, traversers, or swing bridges
11/46	· 制造无缝轨道的一般方法	11/44	· Non-dismountable rail joints; Welded joints (welding methods B 23 K)
11/48	· 火焰焊接接头	11/46	· General methods for making gapless tracks
11/50	· 电焊接头	11/48	· Joints made by flame welding
		11/50	· Joints made by electric welding

11/52	• • 铝热焊接接头	11/52	• • Joints made by aluminothermal welding
11/54	• 电绝缘接头	11/54	• Electrically-insulating rail joints
11/56	• 支撑铁轨末端的特殊装置 (轨脚支撑入11/08至11/14)	11/56	• Special arrangements for supporting rail ends (foot supports 11/08 to 11/14)
11/58	• • 桥板	11/58	• • Bridge plates
11/60	• • • 用楔形物	11/60	• • • with wedges
11/62	• • 桥座 (轨座入9/54至9/58)	11/62	• • Bridge chairs (chairs 9/54 to 9/58)
13/00	防止轨道移位的设施	13/00	Arrangements preventing shifting of the track
13/02	• 轨条锚杆	13/02	• Rail anchors
15/00	防止人脚陷入槽轨的设施	15/00	Guards for preventing a person's foot being trapped in grooved rails
17/00	防止家畜损坏轨道的设施 (防止家畜失散误入铁道的一般网格入A013/00)	17/00	Cattle guards connected to the permanent way (grids in general for preventing cattle from straying A 01 K 3/00)
19/00	轨道的防尘、风、阳光、霜冻或腐蚀的设施; 减少噪音的设施 (防雪栅入E01F7/02; 扫雪机入E01H8/02; 洒水入E01 H11/00)	19/00	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 E 01 F 7/02; snow ploughs E 01 H 8/02; watering E 01 H 11/00)
21/00	铺砌街道上电车轨道专用的上部结构 (铺路入E01C9/04, 9/06)	21/00	Track superstructure specially adapted for tramways in paved streets (paving E 01 C 9/04, 9/06)
21/02	• 特殊支撑措施; 轨道排水	21/02	• Special supporting means; Draining of rails
21/04	• 特殊的固定措施; 接头或系杆	21/04	• Special fastenings, joint constructions, or tie-rods
23/00	易于拆除或活动的轨道, 如临时铁道, 及其专用的部件	23/00	Easily dismountable or movable tracks, e. g. temporary railways; Details specially adapted therefor
23/02	• 轨道或田间、林区或矿区使用的窄轨	23/02	• Tracks or light railways, e. g. for field, colliery, or mine use
23/04	• • 固定或连接装置	23/04	• • Fastening or joining means
23/06	• • 转辙器 (转车台入B60S, B61J); 轻便转辙器; 岔道	23/06	• • Switches (turn-tables B 60 S, B 61 J); Portable switches; Turnouts
23/08	• 维修电车道时用的临时轨道	23/08	• Temporary tracks for use while repairing tramways
23/10	• 重载的可换轨道, 如负载开挖机	23/10	• Shiftable tracks for heavy loads, e.g. carrying excavators
23/12	• • 轨枕	23/12	• • Sleepers

23/14	• 固定或连接措施 (用锁栓固定轨道入9/24)	23/14	• Fastening or joining means (fastening of rails by keys 9/24)
23/16	• 转辙器	23/16	• Switches
25/00	特种铁道用的轨道 (铁路系统入B61B; 公路上的车轮轨道入E 01C9/02)	25/00	Tracks for special kinds of railways (systems B 61 B, wheel tracks on roads E 01 C 9/02)
附注: 本组内“轨道”这个词包括非承重导轨		Note	In this group the term “track” includes non-load-carrying guide rails.
25/02	• 齿轨铁道的轨道	25/02	• Tracks for rack railways
25/04	• 齿轨铁道; 齿轨铁道的支撑或连接	25/04	• Rack rails; Supports or connections for rack rails
25/06	• 转辙器; 辙岔; 交叉	25/06	• Switches; Frogs; Crossings
25/08	• 车辆重心在承重铁道上面的单轨轨道	25/08	• Tracks for mono-rails with centre of gravity of vehicle above the loadbearing rail
25/10	• 单轨; 辅助性平衡轨; 轨道的支撑或连接	25/10	• Mono-rails; Auxiliary balancing rails; Supports or connections for rails
25/12	• 转辙器; 交叉	25/12	• Switches; Crossings
25/14	• 缆索牵引铁道车辆用的轨道	25/14	• Tracks for cable-drawn railway vehicles
25/15	• 转辙器; 交叉	25/15	• Switches; Crossings
25/16	• 有固定缆索的架空索道	25/16	• Tracks for aerial rope railways with a stationary rope
25/18	• 缆索; 缆索的支撑、固定或张拉设备 (一般缆索入D07B; 缆索管箍入E04H12/00; 缆索套接入F16G)	25/18	• Ropes; Supports, fastening or straining means for ropes (ropes in general D 07 B; masts E 04 H 12/00; rope sockets F 16 G)
25/20	• 转辙器; 交叉	25/20	• Switches; Crossings
25/22	• 车辆可以在刚性支撑轨道上悬吊的铁道轨道	25/22	• Tracks for railways with the vehicle suspended from rigid supporting rails
25/24	• 支撑轨; 辅助性平衡轨; 轨道的支撑和连接	25/24	• Supporting rails; Auxiliary balancing rails; Supports or connections for rails
25/26	• 转辙器; 交叉	25/26	• Switches; Crossings
25/28	• 在公路或类似路面上运行的汽车轨道 (公路上的轮轨入E01C 9/02)	25/28	• Rail tracks for guiding vehicles when running on road or similar surface (wheel tracks on roads E 01 C 9/02)
26/00	上述各类目未包括之轨道或轨道构件	26/00	Tracks or track components not covered by any one of the preceding groups

铺筑, 维修, 翻新或铲挖石碴层或轨道; 为此专门设计的工具和机器 (脱轨和复轨机入 B61K5/00; 从路面上排除异物控制植物生长, 液体供给等入 E01H)

27/00 铺设、翻新、养护, 清洁或铲挖石碴层; 有或无相连的工作; 所需设备; 轨枕的填充

27/02 铺石碴; 铺筑石碴层; 重新铺散石碴材料; 所用机械设备; 把平石碴材料用的设备

27/04 清除路渣; 所用机械, 包括挖石碴或不挖石碴的设备 (27/06, 27/12 优先; 重新铺散道渣材料入 27/02)

27/06 现场翻新或清除道渣, 有或无与道路相关的工作

27/08 轨道提起的 (27/11 优先)

27/10 不拿开轨道 (27/11 优先)

27/11 与轨道各部分翻新工程有关的

27/12 轨枕的填充, 带或不带相连工作的, 夯实铺轨路碴

27/13 轨枕的填充, 带或不带相连工作的 (留枕木窝入 27/02)

27/14 所采用的手工工具或手扶动力机具

27/16 机械, 如所谓的轨枕夯实机

27/17 带有提升, 把平或回转轨道用的设备

27/18 在枕木下铺设另外的新材料, 如用翼翻铲斗法、鼓风法

Making, maintaining, renewing, or taking-up the ballastway or the track; Tools or machines specially designed therefor (derailing or rerailing of machines B 61 K 5/00; removal of foreign matter from the permanent way, vegetation control, applying liquids E 01 H)

27/00 Placing, renewing, working, cleaning, or taking-up the ballast, with or without concurrent work on the track; Devices therefor; Packing sleepers

27/02 Placing the ballast; Making the ballastway; Redistributing ballasting material; Machines or devices therefor; Levelling means

27/04 Removing the ballast; Machines therefor, whether or not additionally adapted for taking-up ballast (27/06, 27/12 take precedence; redistributing ballasting material 27/02)

27/06 Renewing or cleaning the ballast in situ, with or without concurrent work on the track

27/08 the track having been taken-up (27/11 takes precedence)

27/10 without taking up the track (27/11 takes precedence)

27/11 combined with concurrent renewal of track components

27/12 Packing sleepers, with or without concurrent work on the track; Compacting track-carrying ballast

27/13 Packing sleepers, with or without concurrent work on the track (performing ballast cores or seats for sleepers 27/02)

27/14 Manual tools or hand-held power tools therefor

27/16 Machines therefor, e. g. so-called sleeper-tamping machines

27/17 combined with means for lifting, levelling, or slewing the track

27/18 by introducing additional fresh material under

27/20	· 夯实铺设轨道的石碴路, 如用振动轨道, 表面振动器 (无轨的石碴路入27/02, 枕木的填充入27/12)	27/20	the sleepers, e. g. by the measured shovel method, by the blowing method · Compacting the materials of the track-carrying bal- lastway, e. g. by vibrating the track, by surface vibrators (of trackless ballastway 27/02, for pack- ing sleepers 27/12)
29/00	铺设, 再建或开挖轨道; 所用工具或机器 (27/00, 31/00优先)	29/00	Laying, rebuilding, or taking-up tracks; Tools or ma- chines therefor (27/00, 31/00 take precedence)
29/02	· 组装轨道、组装转辙机或组装交叉轨的运输、铺放、拆除或增 铺长度 (29/04优先)	29/02	· Transporting, laying, removing, or renewing lengths of assembled track, assembled switches, or assembl- ed crossings (29/04 takes precedence)
29/04	· 轨道的提升或找平 (一般提升措施入B66F)	29/04	· Lifting or levelling of tracks (lifting devices in gen- eral B 66 F)
29/05	· 轨道和枕木的运输、铺放、拆除或翻新 (组装构件入29/02)	29/05	· Transporting, laying, removing, or renewing both rails and sleepers (as assembled units 29/02)
29/06	· 轨枕的运输、铺放、拆除或翻新 (29/05优先, 装载设备入 B65G7/12)	29/06	· Transporting, laying, removing, or renewing sleep- ers (29/05 takes precedence; carrying devices B 65 G 7/12)
29/09	· 下面或从下面安装的轨道	29/09	· under, or from under, installed rails
29/10	· 插入或抽出轨枕	29/10	· for inserting or removing sleepers
29/11	· 抽出包括损坏的轨枕, 如抽出一段	29/11	· Removal involving destruction of the sleeper, e. g. the sectioning thereof
29/13	· 与轨道平行方向的移动轨枕, 如, 定位或调直 (29/10优 先)	29/13	· for moving sleepers in a direction parallel to the rails, e. g. for spacing or aligning them (29/10 takes precedence)
29/14	· 把轨枕提到铁轨高度 (一般提升设备入B66F)	29/14	· for lifting sleepers up to the rails (lifting devic- es in general B 66 F)
29/16	· 运输、铺放、拆除或更换铁轨, 移动轨枕上的轨条 (29/05优 先, 一般移动或倾卸重载入B65G7/00)	29/16	· Transporting, laying, removing, or replacing rails; Moving rails placed on sleepers in the track (29/05 takes precedence; moving or tilting heavy loads in general B 65 G 7/00)
29/17	· 把一段段的铁轨组成一排, 如焊接	29/17	· Lengths of rails assembled into strings, e. g. we- lded together
29/20	· 在轨道的标高上移动组装的轨枕	29/20	· Moving rails placed on installed sleepers in the