CPC COOPERATIVE PATENT CLASSIFICATION

B66B ELEVATORS; ESCALATORS OR MOVING WALKWAYS ({apparatus for raising or lowering persons on theatrical stages or the like A63J 5/12} ; funicular railbound systems with rigid ground-supported tracks and cable traction, e.g. cliff railways, B61B 9/00; arrangements of ammunition handlers in vessels B63G 3/00; hoists, lifts, or conveyors for loading or unloading in general B65G; braking or detent devices controlling normal movements of winding drums or barrels B66D; ship-lifting devices E02C; garages for many vehicles with mechanical means for lifting vehicles E04H 6/12; hoists for feeding ammunition or projectiles to launching apparatus or to loading mechanisms F41A 9/00)

NOTE

In this subclass, the following term is used with the meaning indicated:
– "elevator" covers the term "lift", and the two terms are interchangeable

Common features of elevators

1/00 **Control systems of elevators in general** (safety devices B66B 5/00; controlling door or gate operation B66B 13/00; systems of general application G05)

1/02 . Control systems without regulation, i.e. without retroactive action

1/04 . . hydraulic

1/06 . . electric

1/08 . . . with devices, e.g. handles or levers, in the cars or cages for direct control of movements

1/10 . . . . specially adapted for mining hoists

1/12 . . . with devices, e.g. handles or levers, located at a control station for direct control movements, e.g. electric mining-hoist control systems

1/14 . . . with devices, e.g. push-buttons, for indirect control of movements

1/16 . . . . with means for storing pulses controlling the movements of a single car or cage {(B66B 1/2433 takes precedence)}

1/18 . . . . with means for storing pulses controlling the movements of several cars or cages {(B66B 1/2458 takes precedence)}

1/20 . . . . . and for varying the manner of operation to suit particular traffic conditions, e.g. "one-way rush-hour traffic", {(B66B 1/2466 takes precedence)}

1/22 . . . . with means for taking account of delayed calls

1/24 . Control systems with regulation, i.e. with retroactive action, for influencing travelling speed, acceleration, or deceleration

1/2408 . . {where the allocation of a call to an elevator car is of importance, i.e. by means of a supervisory or group controller}

1/2416 . . . {For single car elevator systems}

2001/2425 . . . . {Zone definition for two cars in the same hatchway}

1/2433 . . . {For elevator systems with a single shaft and multiple cars}

2001/2441 . . . . {with the use of a speed pattern generator}

2001/245 . . . . {for high-speed elevators which do not attain the maximum speed during shorts runs}

1/2458 . . . {For elevator systems with multiple shafts and a single car per shaft}

1/2466 . . . {For elevator systems with multiple shafts and multiple cars per shaft}

2001/2475 . . . . {by using cost function computing}

2001/2483 . . . . {by predicting the traffic, e.g. with statistical or learning procedures}

1/2491 . . . {For elevator systems with lateral transfers of cars or cabins between hoistways}

1/26 . . mechanical

1/28 . . electrical (detecting excessive speed B66B 5/04); {(control of electrical motor H02P)}

1/285 . . . {with the use of a speed pattern generator}

WARNING

This group is not complete due to reorganisation in progress, see also B66B 1/28

1/30 . . . effective on driving gear, {e.g. acting on power electronics, on inverter or rectifier controlled motor}

1/302 . . . . {for energy saving}

1/304 . . . . {with starting torque control}

1/306 . . . . {with DC powered elevator drive}

1/308 . . . . {with AC powered elevator drive}

1/32 . . . effective on braking devices, {e.g. acting on electrically controlled brakes (brake control H02P, lift brakes per se B66B 5/02)}

1/34 . Details, {e.g. call counting devices, data transmission from car to control system, devices giving information to the control system}

1/3407 . . {Setting or modification of parameters of the control system}

1/3415 . . {Control system configuration and the data transmission or communication within the control system}

1/3423 . . . {Control system configuration, i.e. lay-out}

1/343 . . . . {Fault-tolerant or redundant control system configuration}

1/3438 . . . . {Master-slave control system configuration}

1/3446 . . . {Data transmission or communication within the control system}

1/3453 . . . . {Procedure or protocol for the data transmission or communication}

1/3461 . . . . {between the elevator control system and remote or mobile stations}

1/3469 . . {mechanical}
1/3476 . . {Load weighing or car passenger counting devices (B66B 5/14 takes precedence)}
1/3484 . . . {using load cells}
1/3492 . . {Position or motion detectors or driving means for the detector (B66B 1/40, B66B 1/50 take precedence; length measuring G01B; speed measuring G01P)}
1/36 . . Means for stopping the cars, cages, or skips at predetermined levels
1/365 . . . {mechanical}
1/38 . . . and for returning the controlling handle or lever to its neutral position
1/40 . . . and for correct levelling at landings
1/405 . . . . {for hydraulically actuated elevators}
1/42 . . . . separate from the main drive
1/425 . . . . . {adapted for multi-deck cars in a single car frame}
1/44 . . . and for taking account of disturbance factors, e.g. variation of load weight
1/46 . . Adaptations of switches or switchgear (switches or switchgear in general, applications of switches or switchgear for floor-levelling purpose H01H; panels for boards or switching arrangements H02B 1/015)
1/461 . . . {characterised by their shape or profile}
1/462 . . . . {Mechanical or piezoelectric input devices}
1/463 . . . . {Touch sensitive input devices}
1/465 . . . . {being resistant to damage}
1/466 . . . . {facilitating maintenance, installation, removal, replacement or repair}
1/467 . . . {characterised by their mounting position}
1/468 . . . {Call registering systems}
1/48 . . . Adaptations of mechanically-operated limit switches (for cranes B66C 13/50; for winding mechanisms B66D 1/56)
1/50 . . . with operating or control mechanisms mounted in the car or cage or in the lift well or hoistway
1/52 . . . Floor selectors

3/00 Applications of devices for indicating or signalling operating conditions of elevators

3/002 . {Indicators}
3/004 . . {Mechanical devices that can be illuminated}
3/006 . . {for guiding passengers to their assigned elevator car}
3/008 . . {Displaying information not related to the elevator, e.g. weather, publicity, internet or TV}
3/02 . Position or depth indicators
3/023 . . {characterised by their mounting position}
3/026 . . {Mechanical devices that can be illuminated}

5/00 Application of checking, fault-correcting, or safety devices in elevators

5/0006 . {Monitoring devices or performance analysers (B66B 5/02 takes precedence)}
5/0012 . . {Devices monitoring the users of the elevator system}
5/0018 . . {Devices monitoring the operating condition of the elevator system}
5/0025 . . . {for maintenance or repair}
5/0031 . . . {for safety reasons}
5/0037 . . {Performance analysers}
5/0043 . {Devices enhancing safety during maintenance}
5/005 . . {Safety of maintenance personnel}
5/0056 . . . {by preventing crushing}
5/0062 . . . . {by devices, being operable or not, mounted on the elevator car}
5/0068 . . . . {by activating the safety brakes when the elevator car exceeds a certain upper or lower position in the elevator shaft}
5/0075 . . . . {by anchoring the elevator car or counterweight}
5/0081 . . . {by preventing falling by means of safety fences or handrails, being operable or not, mounted on top of the elevator car}
5/0087 . {Devices facilitating maintenance, repair or inspection tasks (devices incorporated in the buffer B66B 5/288; railings on top of the car B66B 11/0226)}
5/0093 . . {Testing of safety devices}
5/02 . responsive to abnormal operating conditions
5/021 . . {the abnormal operating conditions being independent of the system (alarm systems in general G08B)}
5/022 . . . {where the abnormal operating condition is caused by a natural event, e.g. earthquake}
5/024 . . . {where the abnormal operating condition is caused by an accident, e.g. fire}
5/025 . . . {where the abnormal operating condition is caused by human behaviour or misbehaviour, e.g. forcing the doors}
5/027 . . {to permit passengers to leave an elevator car in case of failure, e.g. moving the car to a reference floor or unlocking the door}
5/028 . . {Safety devices separate from control system in case of power failure, for hydraulical lifts, e.g. braking the hydraulic jack (B66B 5/16 takes precedence)}
5/04 . . for detecting excessive speed
5/042 . . . {with characteristic location of the governor cable}
5/044 . . . {Overspeed governors}
5/046 . . . . {of the pendulum or rocker arm type}
5/048 . . . {Testing of overspeed governor}
5/06 . . . electrical
5/08 . . for preventing overwinding
5/10 . . . electrical
5/12 . . in case of rope or cable slack
5/125 . . . {electrical}
5/14 . . in case of excessive loads
5/145 . . . {electrical}
5/16 . . Braking or catch devices operating between cars, cages, or skips and fixed guide elements or surfaces in hoistway or well
5/18 . . . and applying frictional retarding forces
5/185 . . . . {by acting on main ropes or main cables}
5/20 . . . . by means of rotatable eccentrically-mounted members (B66B 5/24 takes precedence)
5/22 . . . . by means of linearly-movable wedges (B66B 5/24 takes precedence)
5/24 . . . . by acting on guide ropes or cables
5/26 . . . Positively-acting devices, e.g. latches, knives
5/28 . Buffer-stops for cars, cages, or skips
5/282 . . {Structure thereof}
5/284 . . {mounted on cars or counterweights}
5/286 . . . {between two cars or two counterweights}

5/288 . . {with maintenance features (if not incorporated in the buffer B66B 5/0087)}

7/00 Other common features of elevators

7/02 . Guideways; Guides (arrangements in mine shafts E21D 7/02)
7/021 . . {with a particular position in the shaft}
7/022 . . {with a special shape}
7/023 . . {Mounting means therefor}
7/024 . . . {Lateral supports}
7/025 . . . {End supports, i.e. at top or bottom}
7/026 . . . {Interconnections}
7/027 . . . {for mounting auxiliary devices}
7/028 . . {with earthquake protection devices}
7/04 . . {Riding means, e.g.} Shoes, Rollers, {between car and guiding means, e.g. rails, ropes (rollers adapted to match the shape of a special guiding means B66B 7/02; vibration attenuation systems acting between car and its supporting frame B66B 11/026)}
7/041 . . . {including active attenuation system for shocks, vibrations}
7/042 . . . . {with rollers, shoes}
7/043 . . . . . {using learning}
7/044 . . . . {with magnetic or electromagnetic means}
7/045 . . . . . {using learning}
7/046 . . . {Rollers}
7/047 . . . {Shoes, sliders}
7/048 . . . {including passive attenuation system for shocks, vibrations}
7/06 . Arrangements of ropes or cables
7/062 . . {Belts}
7/064 . . {Power supply or signal cables}
7/066 . . {Chains}
7/068 . . {Cable weight compensating devices}
7/08 . . for connection to the cars or cages, e.g. couplings
7/085 . . . {Belt termination devices}
7/10 . . for equalising rope or cable tension
7/12 . Checking, lubricating, or cleaning means for ropes, cables or guides
7/1207 . . {Checking means}
7/1215 . . . {specially adapted for ropes or cables}
7/1223 . . . . {by analysing electric variables}
7/123 . . . . {by analysing magnetic variables}
7/1238 . . . . {by optical techniques}
7/1246 . . . {specially adapted for guides}
7/1253 . . {Lubricating means}
7/1261 . . . {specially adapted for ropes or cables}
7/1269 . . . {specially adapted for guides}
7/1276 . . {Cleaning means}
7/1284 . . . {specially adapted for ropes or cables}
7/1292 . . . {specially adapted for guides}

Lifts in, or associated with, buildings

9/00 Kinds or types of lifts in, or associated with, buildings or other structures (characterised by control systems B66B 1/00; apparatus for raising or lowering persons on stages of theatres A63J 5/12)

9/003 . {for lateral transfer of car or frame, e.g. between vertical hoistways or to/from a parking position}
2009/006 . {Ganged elevator}
9/02 . actuated mechanically otherwise than by rope or cable
9/022 . . {by rack and pinion drives}
9/025 . . {by screw-nut drives}
9/027 . . {by rope climbing devices}
9/04 . actuated pneumatically or hydraulically (platforms for lifting or lowering through short distances B66F 7/00)
9/06 . inclined, e.g. serving blast furnaces
9/08 . . associated with stairways, e.g. for transporting disabled persons {(facilitating access of invalids to vehicles A61G 3/02)}
9/0807 . . . {Driving mechanisms}
9/0815 . . . . {Rack and pinion, friction rollers}
9/0823 . . . . {Screw and nut}
9/083 . . . . {Pull cable, pull chain}
9/0838 . . . {Levelling gears}
9/0846 . . . {Guide rail (B66B 9/0807 takes precedence)}
9/0853 . . . {Lifting platforms, e.g. constructional features}
9/0861 . . . {Hanging lifts, e.g. rope suspended seat or platform}
9/0869 . . . {Collapsible stairways, e.g. operable between a lower level and an upper level}
2009/0876 . . . {Details}
2009/0884 . . . . {Control systems}
2009/0892 . . . . {Seats' constructional features}
9/10 . Paternoster type (with devices for transferring goods into, or out of, the compartments B65G 17/00)
9/16 . Mobile or transportable lifts specially adapted to be shifted from one part of a building or other structure to another part or to another building or structure (devices for lifting or lowering bulky or heavy goods for loading or unloading purposes B66F 9/00, e.g. fork-lift trucks B66B 9/06)
9/187 . . with a liftway specially adapted for temporary connection to a building or other structure (B66B 9/193 takes precedence)
9/193 . . with inclined liftways

11/00 Main component parts of lifts in, or associated with, buildings or other structures

11/0005 . {Constructional features of hoistways}
11/001 . {Arrangement of controller, e.g. location}
11/0015 . . {in the machine room}
11/002 . . {in the hoistway}
11/0025 . . . {on the car}
11/003 . . . {on the counterweight}
11/0035 . {Arrangement of driving gear, e.g. location or support}
11/004 . . {in the machine room}
11/0045 . . {in the hoistway}
11/005 . . . {on the car}
11/0055 . . . {on the counterweight}
11/006 . {Applications of loading and unloading equipment for lifts associated with buildings (of general application B65G; for paternoster lifts B65G 17/00; for mine lifts B66B 17/14)}
11/0065 . {Roping (Mining hoist B66B 15/08)}
11/007 . . {for counterweightless elevators}
11/0075 . . {with hoisting rope or cable positively attached to a winding drum}
11/008 . . {with hoisting rope or cable operated by frictional engagement with a winding drum or sheave}
11/0085 . . . {of rucksack elevators}
11/009 . . . {with separate traction and suspension ropes}

11/0095 . . . {where multiple cars drive in the same hoist way}
11/02 . Cages, {i.e. cars} (doors, gates or other apparatus controlling access to, or exit from, cages B66B 13/00)
11/0206 . . {Car frames}
11/0213 . . . {for multi-deck cars}
11/022 . . . . {with changeable inter-deck distances}
11/0226 . . {Constructional features, e.g. walls assembly, decorative panels, comfort equipment, thermal or sound insulation}
11/0233 . . . {Lighting systems}
11/024 . . . {Ventilation systems}
11/0246 . . . {Maintenance features (devices facilitating maintenance in general B66B 5/0087)}
11/0253 . . . {Fixation of wall panels}
11/026 . . {Attenuation system for shocks, vibrations, imbalance, e.g. passengers on the same side (acting between car or supporting frame and guides B66B 7/04; acting between car and ropes, cables B66B 7/08; correcting levelling between car and floor B66B 1/40)}
11/0266 . . . {Passive systems (aerodynamic structure B66B 11/0226)}
11/0273 . . . . {acting between car and supporting frame}
11/028 . . . {Active systems}
11/0286 . . . . {acting between car and supporting frame}
11/0293 . . . {Suspension locking or inhibiting means to avoid movement when car is stopped at a floor (locking car to building while loading to avoid movement B66B 17/34)}
11/04 . Driving gear; {Details thereof, e.g. seals (braking devices acting on the driving gear B66B 5/02; of mining-hoist winding devices B66B 15/08)}
11/0407 . . {actuated by an electrical linear motor (in the counterweight B66B 17/12)}
11/0415 . . {actuated manually, e.g. additional safety system}
11/0423 . . {actuated pneumatically or hydraulically}
11/043 . . {actuated by rotating motor; Details, e.g. ventilation (Roping on drum, sheave, winch or pulley B66B 11/0065; Power supply or control B66B 1/28, H02P; Motor construction H02K)}
11/0438 . . . {with a gearless driving, e.g. integrated sheave, drum or winch in the stator or rotor of the cage motor}
11/0446 . . . {with screw-nut or worm-screw gear}
11/0453 . . . {with planetary or epicycloidal gear, e.g. differential gear}
11/0461 . . . {with rack and pinion gear}
11/0469 . . . {with chain, pinion gear}
11/0476 . . . {with friction gear, e.g. belt linking motor to sheave}
11/0484 . . . {with a clutch or a coupling system between several motors, e.g. switching different speeds, progressive starting, torque limitation, flywheel (control B66B 1/28)}
11/0492 . . {actuated by other systems, e.g. combustion engines}
11/06 . . with hoisting rope or cable positively attached to a winding drum {(B66B 11/0075 takes precedence)}
11/08 . . with hoisting rope or cable operated by frictional engagement with a winding drum or sheave {(B66B 11/008 takes precedence)}

13/00 Doors, gates, or other apparatus controlling access to, or exit from, cages or lift well landings (door fittings, locks E05)
13/02 . Door or gate operation (of general application E05F)
13/04 . . of swinging doors
13/06 . . of sliding doors
13/08 . . . guided for horizontal movement
13/10 . . . by car or cage movement
13/12 . . Arrangements for effecting simultaneous opening or closing of cage and landing doors
13/125 . . . {electrical}
13/14 . . Control systems or devices
13/143 . . . {electrical}
13/146 . . . . {method or algorithm for controlling doors}
13/16 . . . Door or gate locking devices controlled or primarily controlled by condition of cage, e.g. movement or position
13/165 . . . . {electrical}
13/18 . . . . without manually-operable devices for completing locking or unlocking of doors
13/185 . . . . . {electrical}
13/20 . . . . . Lock mechanisms actuated mechanically by abutments or projections on the cages
13/22 . Operation of door or gate contacts
13/24 . Safety devices in passenger lifts, not otherwise provided for, for preventing trapping of passengers
13/245 . . {mechanical}
13/26 . . between closing doors
13/28 . . between car or cage and wells
13/285 . . . {Toe guards or apron devices}
13/30 . Constructional features of doors or gates (of interest apart from this application E06B)
13/301 . . {Details of door sills}
13/303 . . {Details of door panels}
13/305 . . . {Slat doors for elevators}
13/306 . . {Details of door jambs}
13/308 . . {Details of seals and joints}

Lifts in hoistways of mines

15/00 Main component parts of mining-hoist winding devices
15/02 . Rope or cable carriers
15/04 . . Friction sheaves; "Koepe" pulleys
15/06 . . Drums
15/08 . Driving gear

17/00 Hoistway equipment
17/02 . mounted in head-frames (winding towers for mines E04H 12/26)
17/04 . Mining-hoist cars or cages
17/06 . . with tiltable platforms
17/08 . Mining skips
17/10 . . adapted for passenger transport
17/12 . Counterpoises
17/14 . Applications of loading and unloading equipment (of general application B65G)
17/16 . . for loading and unloading mining-hoist cars or cages
17/18 . . . Swinging bridges, e.g. for compensating for differences in level between car or cage and landing

17/20 . . . by moving vehicles into, or out of, the cars or cages
17/22 . . . Securing vehicles in cars or cages
17/24 . . . . mounted on the car or cage
17/26 . . for loading or unloading mining-hoist skips
17/28 . . electrically controlled (for elevators in general B66B 1/06)
17/30 . . . for cars or cages
17/32 . . . for skips
17/34 . Safe lift clips; Keps
17/36 . Gates or other apparatus controlling access to, or exit from, cars, cages, or hoistway landings

19/00 Mining-hoist operation
19/002 . {installing or exchanging guide rails (details of rails B66B 7/02)}
19/005 . {installing or exchanging the elevator drive}
19/007 . {method for modernisation of elevators}
19/02 . installating or exchanging ropes or cables
19/04 . installing or removing mining-hoist cars, cages, or skips
19/06 . Applications of signalling devices (depth indicators B66B 3/02; order telegraphs G08B)

20/00 Elevators not provided for in groups B66B 1/00 - B66B 19/00

Escalators or moving walkways

21/00 Kinds or types of escalators or moving walkways
21/02 . Escalators
21/025 . . {of variable speed type}
21/04 . . Linear type
21/06 . . Spiral type
21/08 . . Paternoster type, i.e. the escalator being used simultaneously for climbing and descending (B66B 21/06 takes precedence)
21/10 . Moving walkways
21/12 . . of variable speed type

23/00 Component parts of escalators or moving walkways
23/02 . Driving gear
23/022 . . {with polygon effect reduction means}
23/024 . . {Chains therefor}
23/026 . . {with a drive or carrying sprocket wheel located at end portions}
23/028 . . {with separate drive chain or belt that engages directly the carrying surface chain}
23/04 . . for handrails
23/06 . . . with means synchronising the operation of the steps or the carrying belts and the handrails
23/08 . Carrying surfaces
23/10 . . Carrying belts
23/12 . . Steps
23/14 . Guiding means for carrying surfaces
2023/142 . . {paternoster return type system}
23/145 . . {Roller assemblies}
23/147 . . {End portions, i.e. means for changing the direction of the carrying surface}
23/16 . Means allowing tensioning of the endless member
23/18 . . for carrying surfaces
23/20 . . for handrails
23/22 . Balustrades
23/225 . . {Lighting systems therefor}
23/24 . . Handrails (driving gear therefor B66B 23/02; tensioning means therefor B66B 23/16; preventing jamming thereof by foreign objects B66B 29/04; accessories therefor B66B 31/02)
23/26 . . . of variable speed type

25/00 Control of escalators or moving walkways (walkways of variable speed type B66B 21/12; handrails of variable speed type B66B 23/26; of general application G05)
25/003 . {Methods or algorithms therefor}
25/006 . {Monitoring for maintenance or repair (for security reasons B66B 29/005)}

27/00 Indicating operating conditions of escalators or moving walkways (of general application G08)

29/00 Safety devices of escalators or moving walkways (walkways of variable speed type B66B 21/12; handrails of variable speed type B66B 23/26)
29/005 . {Applications of security monitors}
29/02 . responsive to, or preventing, jamming by foreign objects
29/04 . . for balustrades or handrails
29/06 . . Combplates
29/08 . Means to facilitate passenger entry or exit (moving handrails B66B 23/24)

31/00 Accessories for escalators, or moving walkways, e.g. for sterilising or cleaning (for safety B66B 29/00)
31/003 . {for cleaning steps or pallets}
31/006 . {for conveying hand carts, e.g. shopping carts (hand carts per se B62B 1/00, B62B 3/00)}
31/02 . for handrails

2201/00 Aspects of control systems of elevators
2201/10 . Details with respect to the type of call input
2201/101 . . Single call input
2201/102 . . Up or down call input
2201/103 . . Destination call input before entering the elevator car
2201/104 . . Call input for a preferential elevator car or indicating a special request
2201/20 . Details of the evaluation method for the allocation of a call to an elevator car
2201/21 . . Primary evaluation criteria
2201/211 . . Waiting time, i.e. response time
2201/212 . . Travel time
2201/213 . . . where the number of stops is limited
2201/214 . . Total time, i.e. arrival time
2201/215 . . Transportation capacity
2201/216 . . Energy consumption
2201/22 . . Secondary evaluation criteria
2201/221 . . Penalisation of transfers
2201/222 . . Taking into account the number of passengers present in the elevator car to be allocated
2201/223 . . Taking into account the separation of passengers or groups
2201/224 . . Avoiding potential interference between elevator cars
2201/225 . . Taking into account a certain departure interval of elevator cars from a specific floor, e.g. the ground floor

2201/226 . . Taking into account the distribution of elevator cars within the elevator system, e.g. to prevent clustering of elevator cars
2201/23 . . Other aspects of the evaluation method
2201/231 . . Sequential evaluation of plurality of criteria
2201/232 . . . where the time needed for a passenger to arrive at the allocated elevator car from where the call is made is taken into account
2201/233 . . Periodic re-allocation of call inputs
2201/234 . . Taking into account uncertainty terms for predicted values, e.g. the predicted arrival time of an elevator car at the floor where a call is made
2201/235 . . Taking into account predicted future events, e.g. predicted future call inputs
2201/24 . . Control of empty elevator cars
2201/241 . . Standby control
2201/242 . . Parking control
2201/243 . . Distribution of elevator cars, e.g. based on expected future need
2201/30 . Details of the elevator system configuration
2201/301 . . Shafts divided into zones
2201/302 . . . with variable boundaries
2201/303 . . Express or shuttle elevators
2201/304 . . Transit control
2201/305 . . . with sky lobby
2201/306 . . Multi-deck elevator cars
2201/307 . . Tandem operation of multiple elevator cars in the same shaft
2201/308 . . Ganged elevator cars
2201/34 . details
2201/40 . Details of the change of control mode
2201/401 . . by time of the day
2201/402 . . by historical, statistical or predicted traffic data, e.g. by learning
2201/403 . . by real-time traffic data
2201/404 . . by cost function evaluation
2201/405 . . by input of special passenger or passenger group
2201/406 . . by input of human supervisor
2201/46 . . Switches or switchgear
2201/4607 . . . Call registering systems
2201/4615 . . . . Wherein the destination is registered before boarding
2201/4623 . . . . Wherein the destination is registered after boarding
2201/463 . . . . Wherein the call is registered through physical contact with the elevator system
2201/4638 . . . . Wherein the call is registered without making physical contact with the elevator system
2201/4646 . . . . . using voice recognition
2201/4653 . . . . wherein the call is registered using portable devices
2201/4661 . . . . for priority users
2201/4669 . . . . . using passenger condition detectors
2201/4676 . . . . for checking authorization of the passengers
2201/4684 . . . . for preventing accidental or deliberate misuse
2201/4692 . . . . for payment for use