

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 conveyers 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**B66B 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](#))

B66B 1/02

. Control systems without regulation, i.e. without retroactive action

B66B 1/04

.. hydraulic

B66B 1/06

.. electric

B66B 1/08

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

B66B 1/10

.... specially adapted for mining hoists

B66B 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

B66B 1/14

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

B66B 1/16

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

B66B 1/18

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

B66B 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)}

B66B 1/22

.... with means for taking account of delayed calls

B66B 1/24

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

B66B 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}

B66B 1/2416

... {For single car elevator systems}

B66B 2001/2425	....	{Zone definition for two cars in the same hatchway}
B66B 1/2433	...	{For elevator systems with a single shaft and multiple cars}
B66B 2001/2441	....	{with the use of a speed pattern generator}
B66B 2001/245	....	{for high-speed elevators which do not attain the maximum speed during shorts runs}
B66B 1/2458	...	{For elevator systems with multiple shafts and a single car per shaft}
B66B 1/2466	...	{For elevator systems with multiple shafts and multiple cars per shaft}
B66B 2001/2475	....	{by using cost function computing}
B66B 2001/2483	....	{by predicting the traffic, e.g. with statistical or learning procedures}
B66B 1/2491	...	{For elevator systems with lateral transfers of cars or cabins between hoistways}
B66B 1/26	..	mechanical
B66B 1/28	..	electrical (detecting excessive speed B66B 5/04); {(control of electrical motor H02P)}
B66B 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](#)

B66B 1/30	...	effective on driving gear,{e.g. acting on power electronics, on inverter or rectifier controlled motor}
B66B 1/302	....	{for energy saving}
B66B 1/304	....	{with starting torque control}
B66B 1/306	....	{with DC powered elevator drive}
B66B 1/308	....	{with AC powered elevator drive}
B66B 1/32	...	effective on braking devices,{e.g. acting on electrically controlled brakes (brake control H02P , lift brakes per se B66B 5/02)}
B66B 1/34	.	Details,{e.g. call counting devices, data transmission from car to control system, devices giving information to the control system}
B66B 1/3407	..	{Setting or modification of parameters of the control system}
B66B 1/3415	..	{Control system configuration and the data transmission or communication within the control system}
B66B 1/3423	...	{Control system configuration, i.e. lay-out}
B66B 1/343	....	{Fault-tolerant or redundant control system configuration}
B66B 1/3438	....	{Master-slave control system configuration}
B66B 1/3446	...	{Data transmission or communication within the control system}
B66B 1/3453	....	{Procedure or protocol for the data transmission or communication}
B66B 1/3461	....	{between the elevator control system and remote or mobile stations}
B66B 1/3469	..	{mechanical}
B66B 1/3476	..	{Load weighing or car passenger counting devices (B66B 5/14 takes precedence)}
B66B 1/3484	...	{using load cells}

- B66B 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](#))}
- B66B 1/36 .. Means for stopping the cars, cages, or skips at predetermined levels
- B66B 1/365 ... {mechanical}
- B66B 1/38 ... and for returning the controlling handle or lever to its neutral position
- B66B 1/40 ... and for correct levelling at landings
- B66B 1/405 {for hydraulically actuated elevators}
- B66B 1/42 separate from the main drive
- B66B 1/425 {adapted for multi-deck cars in a single car frame}
- B66B 1/44 ... and for taking account of disturbance factors, e.g. variation of load weight
- B66B 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](#))
- B66B 1/461 ... {characterised by their shape or profile}
- B66B 1/462 {Mechanical or piezoelectric input devices}
- B66B 1/463 {Touch sensitive input devices}
- B66B 1/465 {being resistant to damage}
- B66B 1/466 {facilitating maintenance, installation, removal, replacement or repair}
- B66B 1/467 ... {characterised by their mounting position}
- B66B 1/468 ... {Call registering systems}
- B66B 1/48 ... Adaptations of mechanically-operated limit switches ([for cranes B66C 13/50](#) ;
[for winding mechanisms B66D 1/56](#))
- B66B 1/50 ... with operating or control mechanisms mounted in the car or cage or in the lift
well or hoistway
- B66B 1/52 ... Floor selectors
- B66B 3/00 Applications of devices for indicating or signalling operating conditions of
elevators**
- B66B 3/002 . {Indicators}
- B66B 3/004 .. {Mechanical devices that can be illuminated}
- B66B 3/006 .. {for guiding passengers to their assigned elevator car}
- B66B 3/008 .. {Displaying information not related to the elevator, e.g. weather, publicity, internet
or TV}
- B66B 3/02 . Position or depth indicators
- B66B 3/023 .. {characterised by their mounting position}
- B66B 3/026 .. {Mechanical devices that can be illuminated}
- B66B 5/00 Application of checking, fault-correcting, or safety devices in elevators**
- B66B 5/0006 . {Monitoring devices or performance analysers ([B66B 5/02](#) takes precedence)}
- B66B 5/0012 .. {Devices monitoring the users of the elevator system}
- B66B 5/0018 .. {Devices monitoring the operating condition of the elevator system}
- B66B 5/0025 ... {for maintenance or repair}
- B66B 5/0031 ... {for safety reasons}

- B66B 5/0037 .. {Performance analysers}
- B66B 5/0043 . {Devices enhancing safety during maintenance}
- B66B 5/005 .. {Safety of maintenance personnel}
- B66B 5/0056 ... {by preventing crushing}
- B66B 5/0062 {by devices, being operable or not, mounted on the elevator car}
- B66B 5/0068 {by activating the safety brakes when the elevator car exceeds a certain upper or lower position in the elevator shaft}
- B66B 5/0075 {by anchoring the elevator car or counterweight}
- B66B 5/0081 ... {by preventing falling by means of safety fences or handrails, being operable or not, mounted on top of the elevator car}
- B66B 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](#))}
- B66B 5/0093 .. {Testing of safety devices}
- B66B 5/02 . responsive to abnormal operating conditions
- B66B 5/021 .. {the abnormal operating conditions being independent of the system (alarm systems in general [G08B](#))}
- B66B 5/022 ... {where the abnormal operating condition is caused by a natural event, e.g. earthquake}
- B66B 5/024 ... {where the abnormal operating condition is caused by an accident, e.g. fire}
- B66B 5/025 ... {where the abnormal operating condition is caused by human behaviour or misbehaviour, e.g. forcing the doors}
- B66B 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}
- B66B 5/028 .. {Safety devices separate from control system in case of power failure, for hydraulic lifts, e.g. braking the hydraulic jack ([B66B 5/16](#) takes precedence)}
- B66B 5/04 .. for detecting excessive speed
- B66B 5/042 ... {with characteristic location of the governor cable}
- B66B 5/044 ... {Overspeed governors}
- B66B 5/046 {of the pendulum or rocker arm type}
- B66B 5/048 ... {Testing of overspeed governor}
- B66B 5/06 ... electrical
- B66B 5/08 .. for preventing overwinding
- B66B 5/10 ... electrical
- B66B 5/12 .. in case of rope or cable slack
- B66B 5/125 ... {electrical}
- B66B 5/14 .. in case of excessive loads
- B66B 5/145 ... {electrical}
- B66B 5/16 .. Braking or catch devices operating between cars, cages, or skips and fixed guide elements or surfaces in hoistway or well
- B66B 5/18 ... and applying frictional retarding forces
- B66B 5/185 {by acting on main ropes or main cables}
- B66B 5/20 by means of rotatable eccentrically-mounted members ([B66B 5/24](#) takes precedence)

- B66B 5/22 by means of linearly-movable wedges ([B66B 5/24](#) takes precedence)
- B66B 5/24 by acting on guide ropes or cables
- B66B 5/26 . . . Positively-acting devices, e.g. latches, knives
- B66B 5/28 . Buffer-stops for cars, cages, or skips
- B66B 5/282 . . {Structure thereof}
- B66B 5/284 . . {mounted on cars or counterweights}
- B66B 5/286 . . . {between two cars or two counterweights}
- B66B 5/288 . . {with maintenance features (if not incorporated in the buffer [B66B 5/0087](#))}

B66B 7/00**Other common features of elevators**

- B66B 7/02 . Guideways; Guides ([arrangements in mine shafts E21D 7/02](#))
- B66B 7/021 . . {with a particular position in the shaft}
- B66B 7/022 . . {with a special shape}
- B66B 7/023 . . {Mounting means therefor}
- B66B 7/024 . . . {Lateral supports}
- B66B 7/025 . . . {End supports, i.e. at top or bottom}
- B66B 7/026 . . . {Interconnections}
- B66B 7/027 . . . {for mounting auxiliary devices}
- B66B 7/028 . . {with earthquake protection devices}
- B66B 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](#))}
- B66B 7/041 . . . {including active attenuation system for shocks, vibrations}
- B66B 7/042 {with rollers, shoes}
- B66B 7/043 {using learning}
- B66B 7/044 {with magnetic or electromagnetic means}
- B66B 7/045 {using learning}
- B66B 7/046 . . . {Rollers}
- B66B 7/047 . . . {Shoes, sliders}
- B66B 7/048 . . . {including passive attenuation system for shocks, vibrations}
- B66B 7/06 . Arrangements of ropes or cables
- B66B 7/062 . . {Belts}
- B66B 7/064 . . {Power supply or signal cables}
- B66B 7/066 . . {Chains}
- B66B 7/068 . . {Cable weight compensating devices}
- B66B 7/08 . . for connection to the cars or cages, e.g. couplings
- B66B 7/085 . . . {Belt termination devices}
- B66B 7/10 . . for equalising rope or cable tension
- B66B 7/12 . . Checking, lubricating, or cleaning means for ropes, cables or guides
- B66B 7/1207 . . {Checking means}

B66B 7/1215	...	{specially adapted for ropes or cables}
B66B 7/1223	....	{by analysing electric variables}
B66B 7/123	....	{by analysing magnetic variables}
B66B 7/1238	....	{by optical techniques}
B66B 7/1246	...	{specially adapted for guides}
B66B 7/1253	..	{Lubricating means}
B66B 7/1261	...	{specially adapted for ropes or cables}
B66B 7/1269	...	{specially adapted for guides}
B66B 7/1276	..	{Cleaning means}
B66B 7/1284	...	{specially adapted for ropes or cables}
B66B 7/1292	...	{specially adapted for guides}

Lifts in, or associated with, buildings

B66B 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)	
B66B 9/003	.	{for lateral transfer of car or frame, e.g. between vertical hoistways or to/from a parking position}
B66B 2009/006	.	{Ganged elevator}
B66B 9/02	.	actuated mechanically otherwise than by rope or cable
B66B 9/022	..	{by rack and pinion drives}
B66B 9/025	..	{by screw-nut drives}
B66B 9/027	..	{by rope climbing devices}
B66B 9/04	.	actuated pneumatically or hydraulically (platforms for lifting or lowering through short distances B66F 7/00)
B66B 9/06	.	inclined, e.g. serving blast furnaces
B66B 9/08	..	associated with stairways, e.g. for transporting disabled persons {(facilitating access of invalids to vehicles A61G 3/02)}
B66B 9/0807	...	{Driving mechanisms}
B66B 9/0815	....	{Rack and pinion, friction rollers}
B66B 9/0823	....	{Screw and nut}
B66B 9/083	....	{Pull cable, pull chain}
B66B 9/0838	...	{Levelling gears}
B66B 9/0846	...	{Guide rail (B66B 9/0807 takes precedence)}
B66B 9/0853	...	{Lifting platforms, e.g. constructional features}
B66B 9/0861	...	{Hanging lifts, e.g. rope suspended seat or platform}
B66B 9/0869	...	{Collapsible stairways, e.g. operable between a lower level and an upper level}
B66B 2009/0876	...	{Details}
B66B 2009/0884	....	{Control systems}
B66B 2009/0892	....	{Seats` constructional features}

- B66B 9/10 . Paternoster type (with devices for transferring goods into, or out of, the compartments [B65G 17/00](#))
- B66B 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](#))
- B66B 9/187 . . with a liftway specially adapted for temporary connection to a building or other structure ([B66B 9/193](#) takes precedence)
- B66B 9/193 . . with inclined liftways

B66B 11/00**Main component parts of lifts in, or associated with, buildings or other structures**

- B66B 11/0005 . {Constructional features of hoistways}
- B66B 11/001 . {Arrangement of controller, e.g. location}
- B66B 11/0015 . . {in the machine room}
- B66B 11/002 . . {in the hoistway}
- B66B 11/0025 . . . {on the car}
- B66B 11/003 . . . {on the counterweight}
- B66B 11/0035 . {Arrangement of driving gear, e.g. location or support}
- B66B 11/004 . . {in the machine room}
- B66B 11/0045 . . {in the hoistway}
- B66B 11/005 . . . {on the car}
- B66B 11/0055 . . . {on the counterweight}
- B66B 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](#))}
- B66B 11/0065 . {Roping (Mining hoist [B66B 15/08](#))}
- B66B 11/007 . . {for counterweightless elevators}
- B66B 11/0075 . . {with hoisting rope or cable positively attached to a winding drum}
- B66B 11/008 . . {with hoisting rope or cable operated by frictional engagement with a winding drum or sheave}
- B66B 11/0085 . . . {of rucksack elevators}
- B66B 11/009 . . . {with separate traction and suspension ropes}
- B66B 11/0095 . . . {where multiple cars drive in the same hoist way}
- B66B 11/02 . Cages,{i.e. cars }(doors, gates or other apparatus controlling access to, or exit from, cages [B66B 13/00](#))
- B66B 11/0206 . . {Car frames}
- B66B 11/0213 . . . {for multi-deck cars}
- B66B 11/022 {with changeable inter-deck distances}
- B66B 11/0226 . . {Constructional features, e.g. walls assembly, decorative panels, comfort equipment, thermal or sound insulation}
- B66B 11/0233 . . . {Lighting systems}
- B66B 11/024 . . . {Ventilation systems}

- B66B 11/0246 . . . {Maintenance features (devices facilitating maintenance in general [B66B 5/0087](#))}
- B66B 11/0253 . . . {Fixation of wall panels}
- B66B 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](#))}
- B66B 11/0266 . . . {Passive systems (aerodynamic structure [B66B 11/0226](#))}
- B66B 11/0273 {acting between car and supporting frame}
- B66B 11/028 . . . {Active systems}
- B66B 11/0286 {acting between car and supporting frame}
- B66B 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](#))}
- B66B 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](#))}
- B66B 11/0407 .. {actuated by an electrical linear motor (in the counterweight [B66B 17/12](#))}
- B66B 11/0415 .. {actuated manually, e.g. additional safety system}
- B66B 11/0423 .. {actuated pneumatically or hydraulically}
- B66B 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](#))}
- B66B 11/0438 . . . {with a gearless driving, e.g. integrated sheave, drum or winch in the stator or rotor of the cage motor}
- B66B 11/0446 . . . {with screw-nut or worm-screw gear}
- B66B 11/0453 . . . {with planetary or epicycloidal gear, e.g. differential gear}
- B66B 11/0461 . . . {with rack and pinion gear}
- B66B 11/0469 . . . {with chain, pinion gear}
- B66B 11/0476 . . . {with friction gear, e.g. belt linking motor to sheave}
- B66B 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](#))}
- B66B 11/0492 .. {actuated by other systems, e.g. combustion engines}
- B66B 11/06 .. with hoisting rope or cable positively attached to a winding drum{ [B66B 11/0075](#) takes precedence}
- B66B 11/08 .. with hoisting rope or cable operated by frictional engagement with a winding drum or sheave{ [B66B 11/008](#) takes precedence}
- B66B 13/00** **Doors, gates, or other apparatus controlling access to, or exit from, cages or lift well landings (door fittings, locks [E05](#))**
- B66B 13/02 . Door or gate operation (of general application [E05F](#))
- B66B 13/04 .. of swinging doors
- B66B 13/06 .. of sliding doors
- B66B 13/08 . . . guided for horizontal movement
- B66B 13/10 . . . by car or cage movement

B66B 13/12	..	Arrangements for effecting simultaneous opening or closing of cage and landing doors
B66B 13/125	...	{electrical}
B66B 13/14	..	Control systems or devices
B66B 13/143	...	{electrical}
B66B 13/146	....	{method or algorithm for controlling doors}
B66B 13/16	...	Door or gate locking devices controlled or primarily controlled by condition of cage, e.g. movement or position
B66B 13/165	....	{electrical}
B66B 13/18	....	without manually-operable devices for completing locking or unlocking of doors
B66B 13/185	.....	{electrical}
B66B 13/20	.....	Lock mechanisms actuated mechanically by abutments or projections on the cages
B66B 13/22	.	Operation of door or gate contacts
B66B 13/24	.	Safety devices in passenger lifts, not otherwise provided for, for preventing trapping of passengers
B66B 13/245	..	{mechanical}
B66B 13/26	..	between closing doors
B66B 13/28	..	between car or cage and wells
B66B 13/285	...	{Toe guards or apron devices}
B66B 13/30	.	Constructional features of doors or gates (of interest apart from this application E06B)
B66B 13/301	..	{Details of door sills}
B66B 13/303	..	{Details of door panels}
B66B 13/305	...	{Slat doors for elevators}
B66B 13/306	..	{Details of door jambs}
B66B 13/308	..	{Details of seals and joints}

Lifts in hoistways of mines

B66B 15/00	Main component parts of mining-hoist winding devices
B66B 15/02	. Rope or cable carriers
B66B 15/04	.. Friction sheaves; "Koepe" pulleys
B66B 15/06	.. Drums
B66B 15/08	. Driving gear
B66B 17/00	Hoistway equipment
B66B 17/02	. mounted in head-frames (winding towers for mines E04H 12/26)
B66B 17/04	. Mining-hoist cars or cages
B66B 17/06	.. with tiltable platforms
B66B 17/08	. Mining skips
B66B 17/10	.. adapted for passenger transport

- B66B 17/12 . Counterpoises
- B66B 17/14 . Applications of loading and unloading equipment (of general application [B65G](#))
- B66B 17/16 .. for loading and unloading mining-hoist cars or cages
- B66B 17/18 ... Swinging bridges, e.g. for compensating for differences in level between car or cage and landing
- B66B 17/20 ... by moving vehicles into, or out of, the cars or cages
- B66B 17/22 ... Securing vehicles in cars or cages
- B66B 17/24 mounted on the car or cage
- B66B 17/26 .. for loading or unloading mining-hoist skips
- B66B 17/28 .. electrically controlled (for elevators in general [B66B 1/06](#))
- B66B 17/30 ... for cars or cages
- B66B 17/32 ... for skips
- B66B 17/34 . Safe lift clips; Keps
- B66B 17/36 . Gates or other apparatus controlling access to, or exit from, cars, cages, or hoistway landings

B66B 19/00**Mining-hoist operation**

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

B66B 20/00**Elevators not provided for in groups [B66B 1/00](#) to [B66B 19/00](#)****Escalators or moving walkways****B66B 21/00****Kinds or types of escalators or moving walkways**

- B66B 21/02 . Escalators
- B66B 21/025 .. {of variable speed type}
- B66B 21/04 .. Linear type
- B66B 21/06 .. Spiral type
- B66B 21/08 .. Paternoster type, i.e. the escalator being used simultaneously for climbing and descending ([B66B 21/06](#) takes precedence)
- B66B 21/10 . Moving walkways
- B66B 21/12 .. of variable speed type

B66B 23/00**Component parts of escalators or moving walkways**

- B66B 23/02 . Driving gear
- B66B 23/022 .. {with polygon effect reduction means}

B66B 23/024	.. {Chains therefor}
B66B 23/026	.. {with a drive or carrying sprocket wheel located at end portions}
B66B 23/028	.. {with separate drive chain or belt that engages directly the carrying surface chain}
B66B 23/04	.. for handrails
B66B 23/06	... with means synchronising the operation of the steps or the carrying belts and the handrails
B66B 23/08	. Carrying surfaces
B66B 23/10	.. Carrying belts
B66B 23/12	.. Steps
B66B 23/14	. Guiding means for carrying surfaces
B66B 2023/142	.. {paternoster return type system}
B66B 23/145	.. {Roller assemblies}
B66B 23/147	.. {End portions, i.e. means for changing the direction of the carrying surface}
B66B 23/16	. Means allowing tensioning of the endless member
B66B 23/18	.. for carrying surfaces
B66B 23/20	.. for handrails
B66B 23/22	. Balustrades
B66B 23/225	.. {Lighting systems therefor}
B66B 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)
B66B 23/26	... of variable speed type
B66B 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)
B66B 25/003	. {Methods or algorithms therefor}
B66B 25/006	. {Monitoring for maintenance or repair (for security reasons B66B 29/005)}
B66B 27/00	Indicating operating conditions of escalators or moving walkways (of general application G08)
B66B 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)
B66B 29/005	. {Applications of security monitors}
B66B 29/02	. responsive to, or preventing, jamming by foreign objects
B66B 29/04	.. for balustrades or handrails
B66B 29/06	.. Combplates
B66B 29/08	. Means to facilitate passenger entry or exit (moving handrails B66B 23/24)
B66B 31/00	Accessories for escalators, or moving walkways, e.g. for sterilising or cleaning (for safety B66B 29/00)
B66B 31/003	. {for cleaning steps or pallets}

- B66B 31/006 . {for conveying hand carts, e.g. shopping carts (hand carts per se [B62B 1/00](#) , [B62B 3/00](#))}
 - B66B 31/02 . for handrails
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B66B 2201/00 Aspects of control systems of elevators

- B66B 2201/10 . Details with respect to the type of call input
- B66B 2201/101 . . Single call input
- B66B 2201/102 . . Up or down call input
- B66B 2201/103 . . Destination call input before entering the elevator car
- B66B 2201/104 . . Call input for a preferential elevator car or indicating a special request
- B66B 2201/20 . Details of the evaluation method for the allocation of a call to an elevator car
- B66B 2201/21 . . Primary evaluation criteria
- B66B 2201/211 . . Waiting time, i.e. response time
- B66B 2201/212 . . Travel time
- B66B 2201/213 where the number of stops is limited
- B66B 2201/214 . . Total time, i.e. arrival time
- B66B 2201/215 . . Transportation capacity
- B66B 2201/216 . . Energy consumption
- B66B 2201/22 . . Secondary evaluation criteria
- B66B 2201/221 . . Penalisation of transfers
- B66B 2201/222 . . Taking into account the number of passengers present in the elevator car to be allocated
- B66B 2201/223 . . Taking into account the separation of passengers or groups
- B66B 2201/224 . . Avoiding potential interference between elevator cars
- B66B 2201/225 . . Taking into account a certain departure interval of elevator cars from a specific floor, e.g. the ground floor
- B66B 2201/226 . . Taking into account the distribution of elevator cars within the elevator system, e.g. to prevent clustering of elevator cars
- B66B 2201/23 . . Other aspects of the evaluation method
- B66B 2201/231 . . Sequential evaluation of plurality of criteria
- B66B 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
- B66B 2201/233 . . Periodic re-allocation of call inputs
- B66B 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
- B66B 2201/235 . . Taking into account predicted future events, e.g. predicted future call inputs
- B66B 2201/24 . . Control of empty elevator cars
- B66B 2201/241 . . Standby control
- B66B 2201/242 . . Parking control
- B66B 2201/243 . . Distribution of elevator cars, e.g. based on expected future need
- B66B 2201/30 . Details of the elevator system configuration
- B66B 2201/301 . . Shafts divided into zones

B66B 2201/302	...	with variable boundaries
B66B 2201/303	..	Express or shuttle elevators
B66B 2201/304	..	Transit control
B66B 2201/305	...	with sky lobby
B66B 2201/306	..	Multi-deck elevator cars
B66B 2201/307	..	Tandem operation of multiple elevator cars in the same shaft
B66B 2201/308	..	Ganged elevator cars
B66B 2201/34	.	details
B66B 2201/40	.	Details of the change of control mode
B66B 2201/401	..	by time of the day
B66B 2201/402	..	by historical, statistical or predicted traffic data, e.g. by learning
B66B 2201/403	..	by real-time traffic data
B66B 2201/404	..	by cost function evaluation
B66B 2201/405	..	by input of special passenger or passenger group
B66B 2201/406	..	by input of human supervisor
B66B 2201/46	..	Switches or switchgear
B66B 2201/4607	...	Call registering systems
B66B 2201/4615	....	Wherein the destination is registered before boarding
B66B 2201/4623	....	Wherein the destination is registered after boarding
B66B 2201/463	....	Wherein the call is registered through physical contact with the elevator system
B66B 2201/4638	....	Wherein the call is registered without making physical contact with the elevator system
B66B 2201/4646	.....	using voice recognition
B66B 2201/4653	....	wherein the call is registered using portable devices
B66B 2201/4661	....	for priority users
B66B 2201/4669	.....	using passenger condition detectors
B66B 2201/4676	....	for checking authorization of the passengers
B66B 2201/4684	....	for preventing accidental or deliberate misuse
B66B 2201/4692	....	for payment for use