NOTE
In this subclass, the following term is used with the meaning indicated:
• “elevator” covers the term “lift”, and the two terms are interchangeable

WARNING
In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

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

Applications of checking, fault-correcting, or safety devices in elevators

Mechanical devices that can be illuminated

Monitoring devices or performance analysers (B66B 5/02 takes precedence)

Devices monitoring the users of the elevator system

Devices monitoring the operating condition of the elevator system

(for maintenance or repair)

(for safety reasons)

Performance analysers

Devices enhancing safety during maintenance

Safety of maintenance personnel

(by preventing crushing)

(by devices, being operable or not, mounted on the elevator car)

(by activating the safety brakes when the elevator car exceeds a certain upper or lower position in the elevator shaft)

(by anchoring the elevator car or counterweight)

(by preventing falling by means of safety fences or handrails, being operable or not, mounted on top of the elevator car)

(Devices facilitating maintenance, repair or inspection tasks (devices incorporated in the buffer B66B 5/28; railings on top of the car B66B 11/0226))

Testing of safety devices

responsive to abnormal operating conditions

the abnormal operating conditions being independent of the system (alarm systems in general G08B)

where the abnormal operating condition is caused by a natural event, e.g. earthquake

where the abnormal operating condition is caused by an accident, e.g. fire

where the abnormal operating condition is caused by human behaviour or misbehaviour, e.g. forcing the doors

(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)

(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))

for detecting excessive speed

(characterised by specific locations of the governor cable)

Mechanical overspeed governors

(of the pendulum or rocker arm type)

Testing of overspeed governor

electrical

for preventing overwinding

electrical

in case of rope or cable slack

electrical

in case of excessive loads

electrical
Common features of elevators

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
9/025 . . . . . . (by rack and pinion 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 . . . . . . (Leveling 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)
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
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
11/005 . . . . . . (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)
Lifts in, or associated with, buildings

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 5/002; 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 12/28, 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
Lifts in hoistways of mines

17/06 . . with tilttable 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 . . Installing 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

B66B 23/12 . . Steps
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 23/26 . . 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 G08)
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 . . Complates
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
2201/010 . . 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
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<td>Wherein the destination is registered before boarding</td>
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<tr>
<td>2201/4623</td>
<td>. .</td>
<td>Wherein the destination is registered after boarding</td>
</tr>
<tr>
<td>2201/463</td>
<td>. .</td>
<td>Wherein the call is registered through physical contact with the elevator system</td>
</tr>
<tr>
<td>2201/4638</td>
<td>. .</td>
<td>Wherein the call is registered without making physical contact with the elevator system</td>
</tr>
<tr>
<td>2201/4646</td>
<td>. .</td>
<td>using voice recognition</td>
</tr>
<tr>
<td>2201/4653</td>
<td>. .</td>
<td>wherein the call is registered using portable devices</td>
</tr>
</tbody>
</table>