SECTION B — PERFORMING OPERATIONS; TRANSPORTING

B66 HOISTING; LIFTING; HAULING

B66B **ELEVATORS; ESCALATORS OR MOVING WALKWAYS** (life-saving devices used as an alternative to normal egress means, e.g. stairs, during rescue to lower persons in cages, bags, or similar supports from buildings or other structures A62B 1/02; equipment for handling freight or for facilitating passenger embarkation or the like to aircraft B64D 9/00; braking or detent devices characterised by their application to lifting or hoisting gear B66D 5/00) **[4]**

Note(s)

In this subclass, the following term is used with the meaning indicated:

- "elevator" covers the term "lift", and the two terms are interchangeable.

Subclass index

COMMON FEATURES OF ELEVATORS
Control; signalling; checking, safety; other.....1/00, 3/00, 5/00, 7/00
LIFTS FOR BUILDINGS
Kinds; component parts; gates.....9/00, 11/00, 13/00
LIFTS FOR MINES
Kinds, hoistway equipment; component parts.....17/00, 19/00, 15/00
OTHER ELEVATORS.....20/00
ESCALATORS, MOVING WALKWAYS
Kinds; component parts; accessories.....21/00, 23/00, 31/00
Control; indicating operating conditions; safety devices.....25/00, 27/00, 29/00

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)

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 of 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

1/18 • • • • with means for storing pulses controlling the movements of several cars or cages

1/20 • • • • • and for varying the manner of operation to suit particular traffic conditions, e.g. "one-way rush-hour traffic"

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

1/26 • • mechanical

1/28 • • electrical (detecting excessive speed B66B 5/04)

1/30 • • • effective on driving gear

1/32 • • • effective on braking devices

1/34 • Details

1/36 • • Means for stopping the cars, cages, or skips at predetermined levels

1/38 • • • and for returning the controlling handle or lever to its neutral position

1/40 • • • and for correct levelling at landings

1/42 • • • • separate from the main drive

1/44 • • • and for taking account of disturbance factors, e.g. variation of load weight

1/46 • • Adaptations of switches or switchgear

1/48 • • • Adaptations of mechanically-operated limit switches

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**

3/02 • Position or depth indicators

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

5/02 • responsive to abnormal operating conditions

5/04 • • for detecting excessive speed

5/06 • • • electrical

5/08 • • for preventing overwinding

5/10 • • • electrical

5/12 • • in case of rope or cable slack
5/14 • • in case of excessive loads
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
5/20 • • • • 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

7/00 Other common features of elevators
7/02 • Guideways; Guides
7/04 • • Shoes; Rollers
7/06 • Arrangements of ropes or cables
7/08 • • for connection to the cars or cages, e.g. couplings
7/10 • • for equalising rope or cable tension
7/12 • Checking, lubricating, or cleaning means for ropes, cables, or 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)
9/02 • actuated mechanically otherwise than by rope or cable
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
9/10 • paternoster type
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 liftway specially adapted for temporary connection to a building or other structure (B66B 9/193 takes precedence) **[6]**
9/193 • • with inclined liftways **[6]**

11/00 Main component parts of lifts in, or associated with, buildings or other structures
11/02 • Cages (doors, gates, or other apparatus controlling access to, or exit from, cages B66B 13/00)
11/04 • Driving gear
11/06 • • with hoisting rope or cable positively attached to a winding drum
11/08 • • with hoisting rope or cable operated by frictional engagement with a winding drum or sheave

13/00 Doors, gates, or other apparatus controlling access to, or exit from, cages or lift-well landings
13/02 • Door or gate operation
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
13/14 • • Control systems or devices
13/16 • • • Door or gate locking devices controlled or primarily controlled by condition of cage, e.g. movement or position
13/18 • • • • without manually-operable devices for completing locking or unlocking of doors
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
13/26 • • between closing doors
13/28 • • between car or cage and wells
13/30 • Constructional features of doors or gates

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
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 or unloading equipment
17/16 • • for loading or 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
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
19/02 • 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)

20/00 Elevators not provided for in groups B66B 1/00-B66B 19/00 [2006.01]

Escalators or moving walkways [4]

21/00 Kinds or types of escalators or moving walkways [4]
21/02 • Escalators **[4]**
21/04 • • linear type **[4]**

21/06 • • spiral type **[4]**
21/08 • • paternoster type, i.e. the escalator being used simultaneously for climbing and descending (B66B 21/06 takes precedence) **[4]**
21/10 • Moving walkways **[4]**
21/12 • • of variable speed type **[4]**

23/00 Component parts of escalators or moving walkways [4]
23/02 • Driving gear **[4]**
23/04 • • for handrails **[4]**
23/06 • • • with means synchronising the operation of the steps or the carrying belts and the handrails **[4]**
23/08 • Carrying surfaces **[4]**
23/10 • • Carrying belts **[4]**
23/12 • • Steps **[4]**
23/14 • Guiding means for carrying surfaces **[4]**
23/16 • Means allowing tensioning of the endless member **[4]**
23/18 • • for carrying surfaces **[4]**
23/20 • • for handrails **[4]**
23/22 • Balustrades **[4]**
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) **[4]**
23/26 • • • of variable speed type **[4]**

25/00 Control of escalators or moving walkways (walkways of variable speed type B66B 21/12; handrails of variable speed type B66B 23/26) **[4]**

27/00 Indicating operating conditions of escalators or moving walkways [4]

29/00 Safety devices of escalators or moving walkways [4]
29/02 • responsive to, or preventing, jamming by foreign objects **[4]**
29/04 • • for balustrades or handrails **[4]**
29/06 • • Combplates **[4]**
29/08 • Means to facilitate passenger entry or exit (moving handrails B66B 23/24) **[4]**

31/00 Accessories for escalators, or moving walkways, e.g. for sterilising or cleaning (for safety B66B 29/00) **[4]**
31/02 • for handrails **[4]**