

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) [6]

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, 2006.01]**
- 1/02 • Control systems without regulation, i.e. without retroactive action **[1, 2006.01]**
- 1/04 • • hydraulic **[1, 2006.01]**
- 1/06 • • electric **[1, 2006.01]**
- 1/08 • • • with devices, e.g. handles or levers, in the cars or cages for direct control of movements **[1, 2006.01]**
- 1/10 • • • • specially adapted for mining hoists **[1, 2006.01]**
- 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, 2006.01]**
- 1/14 • • • with devices, e.g. push-buttons, for indirect control of movements **[1, 2006.01]**
- 1/16 • • • • with means for storing pulses controlling the movements of a single car or cage **[1, 2006.01]**
- 1/18 • • • • with means for storing pulses controlling the movements of several cars or cages **[1, 2006.01]**
- 1/20 • • • • • and for varying the manner of operation to suit particular traffic conditions, e.g. "one-way rush-hour traffic" **[1, 2006.01]**
- 1/22 • • • • with means for taking account of delayed calls **[1, 2006.01]**

- 1/24 • Control systems with regulation, i.e. with retroactive action, for influencing travelling speed, acceleration, or deceleration **[1, 2006.01]**
- 1/26 • • mechanical **[1, 2006.01]**
- 1/28 • • electrical (detecting excessive speed B66B 5/04) **[1, 2006.01]**
- 1/30 • • • effective on driving gear **[1, 2006.01]**
- 1/32 • • • effective on braking devices **[1, 2006.01]**
- 1/34 • Details **[1, 2006.01]**
- 1/36 • • Means for stopping the cars, cages, or skips at predetermined levels **[1, 2006.01]**
- 1/38 • • • and for returning the controlling handle or lever to its neutral position **[1, 2006.01]**
- 1/40 • • • and for correct levelling at landings **[1, 2006.01]**
- 1/42 • • • • separate from the main drive **[1, 2006.01]**
- 1/44 • • • and for taking account of disturbance factors, e.g. variation of load weight **[1, 2006.01]**
- 1/46 • • Adaptations of switches or switchgear **[1, 2006.01]**
- 1/48 • • • Adaptations of mechanically-operated limit switches **[1, 2006.01]**
- 1/50 • • • with operating or control mechanisms mounted in the car or cage or in the lift well or hoistway **[1, 2006.01]**
- 1/52 • • • Floor selectors **[1, 2006.01]**
- 3/00 Applications of devices for indicating or signalling operating conditions of elevators [1, 2006.01]**
- 3/02 • Position or depth indicators **[1, 2006.01]**

5/00 Applications of checking, fault-correcting or safety devices in elevators [1, 2006.01]

- 5/02 • responsive to abnormal operating conditions [1, 2006.01]
- 5/04 • • for detecting excessive speed [1, 2006.01]
- 5/06 • • • electrical [1, 2006.01]
- 5/08 • • for preventing overwinding [1, 2006.01]
- 5/10 • • • electrical [1, 2006.01]
- 5/12 • • in case of rope or cable slack [1, 2006.01]
- 5/14 • • in case of excessive loads [1, 2006.01]
- 5/16 • • Braking or catch devices operating between cars, cages, or skips and fixed guide elements or surfaces in hoistway or well [1, 2006.01]
- 5/18 • • • and applying frictional retarding forces [1, 2006.01]
- 5/20 • • • • by means of rotatable eccentrically- mounted members (B66B 5/24 takes precedence) [1, 2006.01]
- 5/22 • • • • by means of linearly-movable wedges (B66B 5/24 takes precedence) [1, 2006.01]
- 5/24 • • • • by acting on guide ropes or cables [1, 2006.01]
- 5/26 • • • Positively-acting devices, e.g. latches, knives [1, 2006.01]
- 5/28 • Buffer-stops for cars, cages, or skips [1, 2006.01]

7/00 Other common features of elevators [1, 2006.01]

- 7/02 • Guideways; Guides [1, 2006.01]
- 7/04 • • Shoes; Rollers [1, 2006.01]
- 7/06 • Arrangements of ropes or cables [1, 2006.01]
- 7/08 • • for connection to the cars or cages, e.g. couplings [1, 2006.01]
- 7/10 • • for equalising rope or cable tension [1, 2006.01]
- 7/12 • Checking, lubricating, or cleaning means for ropes, cables, or guides [1, 2006.01]

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) [1, 2006.01]**

- 9/02 • actuated mechanically otherwise than by rope or cable [1, 2006.01]
- 9/04 • actuated pneumatically or hydraulically (platforms for lifting or lowering through short distances B66F 7/00) [1, 2006.01]
- 9/06 • inclined, e.g. serving blast furnaces [1, 2006.01]
- 9/08 • • associated with stairways, e.g. for transporting disabled persons [1, 2006.01]
- 9/10 • paternoster type [1, 2006.01]
- 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 [1, 2006.01]
- 9/187 • • with liftway specially adapted for temporary connection to a building or other structure (B66B 9/193 takes precedence) [6, 2006.01]
- 9/193 • • with inclined liftways [6, 2006.01]

11/00 Main component parts of lifts in, or associated with, buildings or other structures [1, 2006.01]

- 11/02 • Cages (doors, gates, or other apparatus controlling access to, or exit from, cages B66B 13/00) [1, 2006.01]
- 11/04 • Driving gear [1, 2006.01]

- 11/06 • • with hoisting rope or cable positively attached to a winding drum [1, 2006.01]

- 11/08 • • with hoisting rope or cable operated by frictional engagement with a winding drum or sheave [1, 2006.01]

13/00 Doors, gates, or other apparatus controlling access to, or exit from, cages or lift-well landings [1, 2006.01]

- 13/02 • Door or gate operation [1, 2006.01]
- 13/04 • • of swinging doors [1, 2006.01]
- 13/06 • • of sliding doors [1, 2006.01]
- 13/08 • • • guided for horizontal movement [1, 2006.01]
- 13/10 • • • by car or cage movement [1, 2006.01]
- 13/12 • • Arrangements for effecting simultaneous opening or closing of cage and landing doors [1, 2006.01]
- 13/14 • • Control systems or devices [1, 2006.01]
- 13/16 • • • Door or gate locking devices controlled or primarily controlled by condition of cage, e.g. movement or position [1, 2006.01]
- 13/18 • • • • without manually-operable devices for completing locking or unlocking of doors [1, 2006.01]
- 13/20 • • • • Lock mechanisms actuated mechanically by abutments or projections on the cages [1, 2006.01]
- 13/22 • Operation of door or gate contacts [1, 2006.01]
- 13/24 • Safety devices in passenger lifts, not otherwise provided for, for preventing trapping of passengers [1, 2006.01]
- 13/26 • • between closing doors [1, 2006.01]
- 13/28 • • between car or cage and wells [1, 2006.01]
- 13/30 • Constructional features of doors or gates [1, 2006.01]

Lifts in hoistways of mines**15/00 Main component parts of mining-hoist winding devices [1, 2006.01]**

- 15/02 • Rope or cable carriers [1, 2006.01]
- 15/04 • • Friction sheaves; "Koepe" pulleys [1, 2006.01]
- 15/06 • • Drums [1, 2006.01]
- 15/08 • Driving gear [1, 2006.01]

17/00 Hoistway equipment [1, 2006.01]

- 17/02 • mounted in head-frames [1, 2006.01]
- 17/04 • Mining-hoist cars or cages [1, 2006.01]
- 17/06 • • with tiltable platforms [1, 2006.01]
- 17/08 • Mining skips [1, 2006.01]
- 17/10 • • adapted for passenger transport [1, 2006.01]
- 17/12 • Counterpoises [1, 2006.01]
- 17/14 • Applications of loading or unloading equipment [1, 2006.01]
- 17/16 • • for loading or unloading mining-hoist cars or cages [1, 2006.01]
- 17/18 • • • Swinging bridges, e.g. for compensating for differences in level between car or cage and landing [1, 2006.01]
- 17/20 • • • by moving vehicles into, or out of, the cars or cages [1, 2006.01]
- 17/22 • • • Securing vehicles in cars or cages [1, 2006.01]
- 17/24 • • • • mounted on the car or cage [1, 2006.01]
- 17/26 • • for loading or unloading mining-hoist skips [1, 2006.01]
- 17/28 • • electrically controlled [1, 2006.01]
- 17/30 • • • for cars or cages [1, 2006.01]

- 17/32 • • • for skips [1, 2006.01]
- 17/34 • Safe lift clips; Keps [1, 2006.01]
- 17/36 • Gates or other apparatus controlling access to, or exit from, cars, cages, or hoistway landings [1, 2006.01]
- 19/00 Mining-hoist operation [1, 2006.01]**
- 19/02 • Installing or exchanging ropes or cables [1, 2006.01]
- 19/04 • Installing or removing mining-hoist cars, cages, or skips [1, 2006.01]
- 19/06 • Applications of signalling devices (depth indicators B66B 3/02) [1, 2006.01]

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, 2006.01]**
- 21/02 • Escalators [4, 2006.01]
- 21/04 • • linear type [4, 2006.01]
- 21/06 • • spiral type [4, 2006.01]
- 21/08 • • paternoster type, i.e. the escalator being used simultaneously for climbing and descending (B66B 21/06 takes precedence) [4, 2006.01]
- 21/10 • Moving walkways [4, 2006.01]
- 21/12 • • of variable speed type [4, 2006.01]
- 23/00 Component parts of escalators or moving walkways [4, 2006.01]**
- 23/02 • Driving gear [4, 2006.01]
- 23/04 • • for handrails [4, 2006.01]
- 23/06 • • • with means synchronising the operation of the steps or the carrying belts and the handrails [4, 2006.01]

- 23/08 • Carrying surfaces [4, 2006.01]
- 23/10 • • Carrying belts [4, 2006.01]
- 23/12 • • Steps [4, 2006.01]
- 23/14 • Guiding means for carrying surfaces [4, 2006.01]
- 23/16 • Means allowing tensioning of the endless member [4, 2006.01]
- 23/18 • • for carrying surfaces [4, 2006.01]
- 23/20 • • for handrails [4, 2006.01]
- 23/22 • Balustrades [4, 2006.01]
- 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, 2006.01]
- 23/26 • • • of variable speed type [4, 2006.01]
- 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, 2006.01]**
- 27/00 Indicating operating conditions of escalators or moving walkways [4, 2006.01]**
- 29/00 Safety devices of escalators or moving walkways [4, 2006.01]**
- 29/02 • responsive to, or preventing, jamming by foreign objects [4, 2006.01]
- 29/04 • • for balustrades or handrails [4, 2006.01]
- 29/06 • • Combplates [4, 2006.01]
- 29/08 • Means to facilitate passenger entry or exit (moving handrails B66B 23/24) [4, 2006.01]
- 31/00 Accessories for escalators, or moving walkways, e.g. for sterilising or cleaning (for safety B66B 29/00) [4, 2006.01]**
- 31/02 • for handrails [4, 2006.01]