CPC  COOPERATIVE PATENT CLASSIFICATION

E  FIXED CONSTRUCTIONS

BUILDING

E01  CONSTRUCTION OF ROADS, RAILWAYS, OR BRIDGES

E01B  PERMANENT WAY; PERMANENT-WAY TOOLS; MACHINES FOR MAKING RAILWAYS OF ALL KINDS (derailing or rerailing blocks on track, track brakes or retarders B61K)

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.

E01C  CONSTRUCTION OF, OR SURFACES FOR, ROADS, SPORTS GROUNDS, OR THE LIKE; MACHINES OR AUXILIARY TOOLS FOR CONSTRUCTION OR REPAIR (forming roads or like surfaces by compacting or grading snow or ice E01H)

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.

E01D  CONSTRUCTION OF BRIDGES, [ELEVATED ROADWAYS] OR VIADUCTS; ASSEMBLY OF BRIDGES (bridges extending between terminal buildings and aircraft for embarking or disembarking passengers B64F 1/305; {tracks for special kinds of railways E01B 25/00; culverts E01F 5/005})

WARNINGS
1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups: E01D 24/00
2. 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.

E01F  ADDITIONAL WORK, SUCH AS EQUIPPING ROADS OR THE CONSTRUCTION OF PLATFORMS, HELICOPTER LANDING STAGES, SIGNS, SNOW FENCES, OR THE LIKE

WARNINGS
1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups: E01F 15/10
2. 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.

E01H  STREET CLEANING; CLEANING OF PERMANENT WAYS; CLEANING BEACHES; DISPERSING {OR PREVENTING} FOG IN GENERAL {CLEANING STREET OR RAILWAY FURNITURE OR TUNNEL WALLS} (cleaning in general B08B)

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.

E02  HYDRAULIC ENGINEERING; FOUNDATIONS; SOIL SHIFTING
E02B HYDRAULIC ENGINEERING  (ship-lifting E02C; dredging E02F)

**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.

E02C SHIP-LIFTING DEVICES OR MECHANISMS

**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.

E02D FOUNDATIONS; EXCAVATIONS; EMBANKMENTS (specially adapted for hydraulic engineering E02B); UNDERGROUND OR UNDERWATER STRUCTURES { (tunnels, tunnelling, mining E21)}

**WARNINGS**
1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
   E02D 29/09 covered by E02D 29/06
2. 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.

E02F DREDGING; SOIL-SHIFTING (winning peat E21C 49/00)

**NOTE**
This subclass covers:
- primarily equipment for excavating or loosening earth or for moving loose earth;
- equipment for working similarly on other materials and similar equipment for loading or unloading materials

**WARNINGS**
1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
2. 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.

E03 WATER SUPPLY; SEWERAGE

E03B INSTALLATIONS OR METHODS FOR OBTAINING, COLLECTING, OR DISTRIBUTING WATER (drilling wells, obtaining fluids in general from wells E21B; pipeline systems in general F17D)

**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.

E03C DOMESTIC PLUMBING INSTALLATIONS FOR FRESH WATER OR WASTE WATER (not connected to either water-supply main or to waste pipe A47K; devices of the kind used in the ground E03B, E03F); SINKS

**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.
E03D WATER-CLOSETS OR URINALS WITH FLUSHING DEVICES; FLUSHING VALVES THEREFOR

**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.

E03F SEWERS; CESSPOOLS

**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.

E04 BUILDING

E04B GENERAL BUILDING CONSTRUCTIONS; WALLS, e.g. PARTITIONS; ROOFS; FLOORS; CEILINGS; INSULATION OR OTHER PROTECTION OF BUILDINGS (border constructions of opening in walls, floors or ceilings E06B 1/00; {electromagnetic shielding H05K 9/0001})

**NOTE**
In this subclass, the following term is used with the meaning indicated:
- “ceiling” includes all the finishing material concealing the underside of the load-carrying ceiling structure or roof structure.

**WARNINGS**
1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
   - E04B 1/682 covered by E04B 1/68
   - E04B 1/684 covered by E04B 1/68
   - E04B 1/686 covered by E04B 1/68

2. 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.

E04C STRUCTURAL ELEMENTS; BUILDING MATERIALS (for bridges E01D; specially designed for insulation or other protection E04B; elements used as building aids E04G; for mining E21; for tunnels E21D; structural elements with broader range of application than for building engineering F16, particularly F16S)

**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.

E04D ROOF COVERINGS; SKY-LIGHTS; GUTTERS; ROOF-WORKING TOOLS (coverings of outer walls by plaster or other porous material E04F 13/00)

**NOTE**
In this subclass, the following expression is used with the meaning indicated:
- “roof coverings” includes any similar kind of watertight covering against rain, snow, hail, or the like, for other parts of buildings

**WARNINGS**
1. The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:
   - E04D 3/3645 covered by E04D 3/363
   - E04D 3/367 covered by E04D 3/364
   - E04D 13/18 covered by F24S 20/67, H02S 20/23

2. 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.
E04F **FINISHING WORK ON BUILDINGS, e.g. STAIRS, FLOORS** (windows, doors E06B)

**WARNINGS**

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

   - E04F 11/09 covered by E04F 11/02
   - E04F 11/17 covered by E04F 11/16

2. 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.

E04G **SCAFFOLDING; FORMS; SHUTTERING; BUILDING IMPLEMENTS OR OTHER BUILDING AIDS, OR THEIR USE; HANDLING BUILDING MATERIALS ON THE SITE; REPAIRING, BREAKING-UP OR OTHER WORK ON EXISTING BUILDINGS**

**NOTE**

In this subclass the word “scaffolding” includes other supports for like purposes

**WARNINGS**

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

   - E04G 23/03

2. 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.

E04H **BUILDINGS OR LIKE STRUCTURES FOR PARTICULAR PURPOSES; SWIMMING OR SPLASH BATHS OR POOLS; MASTS; FENCING; TENTS OR CANOPIES, IN GENERAL** (foundations E02D)

**NOTES**

1. This subclass deals primarily with the layout of buildings as a whole, but includes details which are peculiar to types of buildings or buildings for special purposes, specified in the groups. The word “buildings” does not exclude engineering structures and other constructions.

2. This subclass provides for canopies in general and for canopies similar in construction to tents. For canopies having special application, see the relevant class, e.g. bed canopies A47C 29/00; protecting chairs against the weather A47C 7/66; sunshades or awnings for buildings E04F 10/00

3. In this subclass, the term “tent” means a tent or canopy having a supporting means, e.g. frame and a flexible cover

**WARNINGS**

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

   - E04H 4/02 covered by E04H 4/0018, E04H 4/0075
   - E04H 4/04 covered by E04H 4/0018, E04H 4/0075

2. 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.

E05 **LOCKS; KEYS; WINDOW OR DOOR FITTINGS; SAFES**

**NOTE**

In this class, the following terms are used with the meanings indicated:

- “Wing” is a general term for swingable, slidable, or otherwise movable doors or windows. This term also includes other movable structures such as drawers, lids of chests, car boots, or car bonnets, to which the operating, mounting, latching, or locking means covered by this class may be applied;
- “Frame” means any member to which a wing may be held by a fastening device. It does not include a framework forming part of the wing, but it may be another wing;
- “Lock” means primarily a device for releasing or securing any member, which requires a key or a permutation mechanism for release. In groups F05B 1400 - F05B 1499, F05B 1700 - F05B 1799, F05B 1900 - F05B 1999, F05B 5100, F05B 5300, F05B 6300 and F05B 6500 however, the term “lock” may include other fastening devices;
- “Bolt” means a sliding, pivoted, or otherwise movable member such as is normally carried by a door to hold it shut by engagement with a keeper on the frame. It may be operated by hand directly or through mechanism or by a key; it may be a latch (see (5) below);
- “Latch” means a bolt arranged to be moved to the releasing position against the force of a spring, or some other returning force, when a wing meets the frame on closing, so that it does not have to be operated by hand to secure the wing, but only to open it;
"Hasp" means a member hinged to the frame or wing so that it can be moved towards the face of the wing or frame and secured thereto, e.g. by a turn-button, by a padlock and staple.

**E05B LOCKS; ACCESSORIES THEREFOR; HANDCUFFS**

**NOTES**
1. Operating or controlling of locks for vehicle wings are classified in groups E05B 77/00-E05B 81/00.
2. Knobs, handles or press buttons for locks of vehicle wings are classified in E05B 79/00-E05B 85/00.
3. In this subclass, it is desirable to add the indexing code(s) of E05Y.

**WARNING**

The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

- E05B 1/02-E05B 9/06 covered by E05B 13/02-E05B 13/08
- E05B 15/12 covered by
- E05B 17/02 covered by
- E05B 19/02 covered by
- E05B 19/06-E05B 19/08 covered by
- E05B 19/10-E05B 19/12 covered by
- E05B 19/16 covered by
- E05B 21/02-E05B 21/04 covered by
- E05B 25/00-E05B 25/10 covered by
- E05B 27/04-E05B 27/06 covered by
- E05B 29/02-E05B 29/14 covered by
- E05B 35/04 covered by
- E05B 37/06 covered by
- E05B 37/18 covered by
- E05B 37/22 covered by
- E05B 45/14 covered by
- E05B 47/04 covered by
- E05B 47/08 covered by
- E05B 49/02-E05B 49/04 covered by
- E05B 55/02 covered by
- E05B 55/04 covered by
- E05B 55/08 covered by
- E05B 55/10 covered by
- E05B 55/14-E05B 55/16 covered by
- E05B 59/02-E05B 59/06 covered by
- E05B 65/04 covered by
- E05B 67/12 covered by
- E05B 67/16 covered by
- E05B 67/20 covered by
- E05B 67/30 covered by
- E05B 67/34 covered by
- E05B 71/02 covered by

**E05C BOLTS OR FASTENING DEVICES FOR WINGS, SPECIALLY FOR DOORS OR WINDOWS** (latching means for sideboard or tailgate structures for vehicles B62D, {B62D 33/02}; fastening devices for constructional or engineering elements E04, F16B; locks, fastening devices structurally or operatively combined or having significant cooperation with locks E05B; means for operating or controlling wing fasteners in conjunction with mechanisms for moving the wing E05F)

**NOTES**
1. In this subclass only the movement essential for securing the wing is considered, e.g. a sliding bolt which is rotated on its axis to prevent its withdrawal is classified as having only a sliding movement.
2. Attention is drawn to the definition following the title of class E05.
3. In this subclass, it is desirable to add the indexing code(s) of E05Y.

**WARNINGS**

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
- E05C 3/32 covered by
2. 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.

E05D  HINGES OR OTHER SUSPENSION DEVICES FOR DOORS, WINDOWS OR WINGS
( { foldable tables A47B 3/00; hinged panels A47B 5/00; foldable chairs A47C 4/00; making hinges B21D 53/40, B21K 13/02; making holes for taking-up fittings B27F 5/12; for vehicle tailboards B60P 1/26; for refuse receptacles B65F 1/1646} ; pivotal connections in general F16C 11/00 {; mounting of stove or range doors F24C 15/023; for folding flat displays of portable computers G06F 1/1616})

WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
   E05D 5/16 covered by E05D 5/14
   E05D 7/081 covered by E05D 7/08
   E05D 7/083 covered by E05D 7/082
   E05D 15/04 covered by E05D 15/02, E05D 15/28, E05D 15/403
   E05D 15/522 covered by E05D 15/52
   E05D 15/523 covered by E05D 15/52
   E05D 15/524 covered by E05D 15/52

2. 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.

E05F  DEVICES FOR MOVING WINGS INTO OPEN OR CLOSED POSITION; CHECKS FOR WINGS; WING FITTINGS NOT OTHERWISE PROVIDED FOR, CONCERNED WITH THE FUNCTIONING OF THE WING

NOTE

In this subclass, the following terms are used with the meanings indicated:
• "closer" or "opener" includes devices for assisting wing-movement or for wing-counterbalancing.

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.

E05G  SAFES OR STRONG-ROOMS FOR VALUABLES; BANK PROTECTION DEVICES; SAFETY TRANSACTION PARTITIONS ( { devices to prevent theft of bags, trunks or baskets A45C 13/18; } ) alarm arrangements per se G08B)

NOTE

In this subclass, the following terms are used with the meanings indicated:
• "bank" is a building or portion of a building devoted to the safekeeping or exchange of valuables between the "bank" and its customers;
• "bank protection device" is a mechanism in or on a bank for protecting the valuables or repelling attacks by stealth or force.

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.

E05Y  INDEXING SCHEME RELATING TO HINGES OR OTHER SUSPENSION DEVICES FOR DOORS, WINDOWS OR WINGS AND DEVICES FOR MOVING WINGS INTO OPEN OR CLOSED POSITION, CHECKS FOR WINGS AND WING FITTINGS NOT OTHERWISE PROVIDED FOR, CONCERNED WITH THE FUNCTIONING OF THE WING
E06 DOORS, WINDOWS, SHUTTERS, OR ROLLER BLINDS IN GENERAL; LADDERS

E06B FIXED OR MOVABLE CLOSURES FOR OPENINGS IN BUILDINGS, VEHICLES, FENCES OR LIKE ENCLOSURES IN GENERAL, e.g. DOORS, WINDOWS, BLINDS, GATES (shades or blinds for greenhouses A01G 9/22; curtains A47H; lids for car boots or bonnets B62D 25/10; skylights E04B 7/18; sunshades, awnings E04F 10/00)

NOTES
1. This subclass does not cover combinations of wings or frames with operating, mounting, latching or locking means of the type found in class E05, which are covered by the relevant subclasses of class E05, except such as are covered by groups E06B 7/086, E06B 9/00, or E06B 11/02 of this subclass.
2. In this subclass, the following terms or expressions are used with the meanings indicated:
   - “wing” means a swingable, slidable or otherwise movable member such as a door or window, for closing an opening;
   - “wing frame” means the peripheral edge or edges which define the outer border of the wing.
3. For vehicle door or window arrangements, attention is drawn to Note (1) following the title of subclass B60J.

WARNINGS
1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
   - E06B 11/06 covered by E05B 65/0007
2. 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.

E06C LADDERS (E04F 11/00 takes precedence; step-stools A47C 12/00; adaptation of ladders to use on ships B63B, to use on aircraft B64; scaffolding E04G)

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.

EARTH DRILLING; MINING

E21 EARTH DRILLING; MINING

E21B EARTH DRILLING, e.g. DEEP DRILLING (mining, quarrying E21C; making shafts, driving galleries or tunnels E21D); OBTAINING OIL, GAS, WATER, SOLUBLE OR MELTABLE MATERIALS OR A SLURRY OF MINERALS FROM WELLS

WARNINGS
1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
   - E21B 1/12 - E21B 1/38 covered by E21B 1/00
   - E21B 7/08 covered by E21B 7/06
   - E21B 11/04 covered by E21B 27/00
   - E21B 23/12 covered by E21B 23/002
   - E21B 31/08 covered by E21B 27/00
   - E21B 43/22 covered by C09K 8/58
   - E21B 43/27 covered by
   - E21B 47/001-E21B 47/009 covered by
   - E21B 47/013-E21B 47/017 covered by
   - E21B 47/0224-E21B 47/0236 covered by
   - E21B 47/047-E21B 47/053 covered by
   - E21B 47/07 covered by
   - E21B 47/085 covered by
   - E21B 47/092-E21B 47/098 covered by
   - E21B 47/103-E21B 47/117 covered by
   - E21B 47/125-E21B 47/135 covered by
   - E21B 47/20-E21B 47/24 covered by
   - E21B 47/26 covered by
2. 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.

### E21C MINING OR QUARRYING

#### NOTES

1. This subclass covers methods or apparatus specific to mining or quarrying

2. This subclass does not cover, even though they may be disclosed only for mining or quarrying, drill bits, bore reamers, core taking devices, drilling pipes or rods, handling, racking or connecting arrangements for drilling pipes or rods, counterboring or enlarging drilled holes, flame drilling, or other drilling apparatus, which are covered by subclass E21B

#### WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

   - E21B 3/02 covered by E21B 3/02
   - E21B 3/035 covered by E21B 3/035
   - E21B 3/025 covered by E21B 3/025
   - E21B 3/03 covered by E21B 3/03
   - E21B 6/00 covered by E21B 6/00
   - E21C3/08 covered by B25D 9/06, B25D15/00
   - E21C3/10 covered by B25D15/02
   - E21C3/12 covered by B25D 11/00
   - E21C3/14 covered by B25D 11/00
   - E21C3/20 covered by B25D 9/12
   - E21C3/22 covered by B25D 9/125
   - B25D11/005 covered by B25D 9/265
   - E21C3/34 covered by B25D 17/08
   - E21B 19/081 covered by E21B 19/081
   - E21B 19/083 covered by E21B 19/083
   - E21B 19/084 covered by E21B 19/084
   - E21B 19/089 covered by E21B 19/089
   - E21B 44/08 covered by E21B 44/08
   - E21B 44/00 covered by E21B 44/00
   - E21B 21/14 covered by E21B 21/14
   - E21B 7/02 covered by E21B 7/02
   - E21C 37/24 covered by B25D
   - E21C 37/26 covered by B25D
   - E21C 41/18 covered by E21C 41/16
   - E21C 41/20 covered by E21C 41/16
   - E21C 41/22 covered by E21C 41/16
   - E21C 41/24 covered by E21C 41/16
   - E21C 41/28 covered by E21C 41/26
   - E21C 41/30 covered by E21C 41/26
   - E21C 45/02 covered by E21C 45/00, E21C 25/60
   - E21C 45/04 covered by E21C 45/00, E21C 25/60
   - E21C 45/06 covered by E21C 45/00, E21C 25/60
   - E21C 45/08 covered by E21C 45/00, E21C 25/60
   - E21C 50/00 covered by E02F 3/88, E21C 25/60
   - E21C 50/02 covered by E02F 3/88

2. 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.

### E21D SHAFTS; TUNNELS; GALLERIES; LARGE UNDERGROUND CHAMBERS (soil-conditioning or soil-stabilising materials C09K 17/00; drilling or cutting machines for mining or quarrying E21C; safety devices, transport, rescue, ventilation or drainage E21F)

#### WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

   - E21D 13/02 covered by E21D 13/00
   - E21D 13/04 covered by E21D 13/00
   - E21D 15/582 covered by E21D 15/58
   - E21D 15/59 covered by E21D 15/54, E21D 15/58
   - E21D 17/022 covered by E21D 17/02
   - E21D 17/05 covered by E21D 17/02, E21D 17/04

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2. 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.

**E21F**  SAFETY DEVICES, TRANSPORT, FILLING-UP, RESCUE, VENTILATION, OR DRAINING IN OR OF MINES OR TUNNELS

**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.

**E99**  SUBJECT MATTER NOT OTHERWISE PROVIDED FOR IN THIS SECTION

**E99Z**  SUBJECT MATTER NOT OTHERWISE PROVIDED FOR IN THIS SECTION

**NOTE**

This subclass covers subject matter that:

a. Is not provided for, but is most closely related to, the subject matter covered by the subclasses of this section, and

b. Is not explicitly covered by any subclass of another section.