

## ECLA - European Patent Classification

A	Human Necessities
A01	Agriculture; forestry; animal husbandry; hunting; trapping; fishing
A21	Baking; edible doughs
A22	Butchering; meat treatment; processing poultry or fish
A23	Foods or foodstuffs; their treatment, not covered by other classes
A24	Tobacco; cigars; cigarettes; smokers' requisites
A41	Wearing apparel
A42	Headwear
A43	Footwear
A44	Haberdashery; jewellery
A45	Hand or travelling articles
A46	Brushware
A47	Furniture; domestic articles or appliances; coffee mills; spice mills; suction cleaners in general
A61	Medical or veterinary science; hygiene
A62	Life-saving; fire-fighting
A63	Sports; games; amusements

B	Performing Operations; Transporting
B41	Printing; lining machines; typewriters; stamps
B42	Bookbinding; albums; files; special printed matter
B43	Writing or drawing implements; bureau accessories
B44	Decorative arts
B60	Vehicles in general
B61	Railways
B62	Land vehicles for traveling otherwise than on rails
B63	Ships or other waterborne vessels; related equipment
B64	Aircraft; aviation; cosmonautics
B65	Conveying; packing; storing; handling thin or filamentary material
B66	Hoisting; lifting; hauling
B67	Opening or closing bottles, jars or similar containers; liquid handling
B68	Saddlery; upholstery
B81	Micro-structure technology
B82	Nano-technology

B	Performing Operations; Transporting
B01	Physical or chemical processes or apparatus in general
B02	Crushing, pulverizing, or disintegrating; preparatory treatment of grain for milling
B03	Separation of solid materials using liquids or using pneumatic tables or jigs; magnetic or electrostatic separation of solid materials from solid materials or fluids; separation by high-voltage electric fields
B04	Centrifugal apparatus or machines for carrying-out physical or chemical processes
B05	Spraying or atomising in general; applying liquids or other fluent materials to surfaces, in general
B06	Generating or transmitting mechanical vibrations in general
B07	Separating solids from solids; sorting
B08	Cleaning
B09	Disposal of solid waste; reclamation of contaminated soil
B21	Mechanical metal-working without essentially removing material; punching metal
B22	Casting; powder metallurgy
B23	Machine tools; metal-working not otherwise provided for
B24	Grinding; polishing
B25	Hand tools; portable power-drive tools; manipulators
B26	Hand cutting tools; cutting; severing
B27	Working or preserving wood or similar material; nailing or stapling machines in general
B28	Working cement, clay, or stone
B29	Working of plastics; working of substances in a plastic state, in general
B30	Presses
B31	Making paper articles; working paper
B32	Layered products

C	Chemistry; Metallurgy
C01	Inorganic chemistry
C02	Treatment of water, wastewater, sewage, or sludge
C03	Glass, mineral or slag wool
C04	Cements; concrete; artificial stone; ceramics; refractories
C05	Fertilisers, Manufacture thereof
C06	Explosives; matches
C07	Organic chemistry
C08	Organic macromolecular compounds; their preparation or chemical working-up; compositions based thereon
C09	Dyes; paints; polishes; natural resins; adhesives; miscellaneous compositions; miscellaneous applications of materials
C10	Petroleum; gas or coke industries; technical gases containing carbon monoxide; fuels; lubricants; peat
C11	Animal and vegetable oils, fats, fatty substances and waxes; fatty acids therefrom; detergents; candles
C12	Biochemistry; beer; spirits; wine; vinegar; microbiology; enzymology; mutation or genetic engineering
C13	Sugar or starch industry
C14	Skins; hides; pelts; leather
C21	Metallurgy of iron
C23	Metallurgy; ferrous or non-ferrous alloys; treatment of alloys or non-ferrous metals
C25	Coating metallic material; coating metallic material with metallic material; chemical surface treatment; diffusion treatment of metallic material; coating by vacuum evaporation, by sputtering, by ion implantation or by chemical vapour deposition, in general
C26	Electrolytic or electrophoretic processes; apparatus thereof
C30	Crystal growth
C40	Combinatorial chemistry

<b>D Textiles; Paper</b>	
D01	Natural or artificial threads or fibres; spinning
D02	Yarns; mechanical finishing of yarns or ropes; warping or beaming
D03	Weaving
D04	Braiding; lace-making; knitting; trimmings; non-woven fabrics
D05	Sewing; embroidering; tufting
D06	Treatment of textiles or the like; laundering; flexible materials not otherwise provided for
D07	Ropes; cables other than electric
D21	Paper-making; production of cellulose

<b>E Fixed Constructions</b>	
E01	Construction of roads, railways, or bridges
E02	Hydraulic engineering; foundations; soil shifting
E03	Water supply; sewerage
E04	Building
E05	Locks; keys; window or door fittings; safes
E06	Doors, windows, shutters, or roller blinds in general; ladders
E21	Earth-drilling; mining

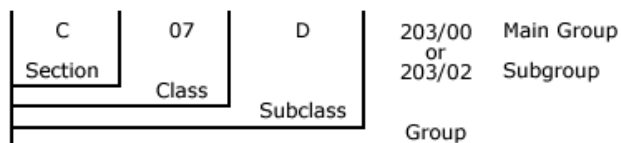
<b>F Mechanical Engineering; Lighting; Heating; Weapons; Blasting Engines or Pumps</b>	
F01	Machines or engines in general; engine plants in general; steam engines
F02	Combustion engines; combustion-product engine plants
F03	Machines or engines for liquids; wind, spring weight and miscellaneous motors; producing mechanical power; or a reactive propulsive thrust, not otherwise provided for
F04	Positive displacement machines for liquids; pumps for liquids or elastic fluids
F15	Fluid-pressure actuators; hydraulics or pneumatics in general
F16	Engineering elements and units; general measures for producing and maintaining effective functioning of machines or installations; thermal insulation in general
F17	Storing or distributing gases or liquids
F21	Lighting
F22	Steam generation
F23	Combustion apparatus; combustion processes
F24	Heating; ranges; ventilating
F25	Refrigeration or cooling; combined heating and refrigeration systems; heat pump systems; manufacture or storage of ice; liquefaction solidification of gases
F26	Drying
F27	Furnaces; kilns; ovens; retorts
F28	Heat exchange in general
F41	Weapons
F42	Ammunition; blasting

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<b>G Physics</b>	
G01	Measuring; testing
G02	Optics
G03	Photography; cinematography; electrography; holography
G04	Horology
G05	Controlling; regulating
G06	Computing; calculating; counting
G07	Checking-devices
G08	Signalling
G09	Education; cryptography; display; advertising; seals
G10	Musical instruments; acoustics
G11	Information storage
G12	Instrument details
G21	Nuclear physics; nuclear engineering

<b>H Electricity</b>	
H01	Basic electric elements
H02	Generation, conversion or distribution of electric power
H03	Basic electronic circuitry
H04	Electric communication technique
H05	Electric techniques not otherwise provided for

<b>Y General Tagging of New Technological Developments</b>	
Y01	Broad technical fields characterised by dimensional aspects



### ECLA Hierarchy

#### Notes

ECLA is a patent classification system based on the International Patent Classification (IPC). It contains about 134,000 groups, roughly twice as many as the 8<sup>th</sup> edition of the IPC.

There are approximately 28 million documents in esp@cenet dating back to 1836 that have been classified in ECLA. About 37 million documents in esp@cenet have IPC codes.

Unlike IPC codes, ECLA codes are not printed on patent documents.

Source: European Patent Office ([www.epo.org](http://www.epo.org))