

CPC COOPERATIVE PATENT CLASSIFICATION

C CHEMISTRY; METALLURGY

(NOTES omitted)

CHEMISTRY

C01 INORGANIC CHEMISTRY

(NOTES omitted)

C01D COMPOUNDS OF ALKALI METALS, i.e. LITHIUM, SODIUM, POTASSIUM, RUBIDIUM, CAESIUM, OR FRANCIUM (metal hydrides {monoborane, diborane or addition complexes thereof} [C01B 6/00](#); salts of oxyacids of halogens [C01B 11/00](#); peroxides, salts of peroxyacids [C01B 15/00](#); sulfides [C01B 17/22](#); thiosulfates, dithionites, polythionates [C01B 17/64](#); compounds containing selenium or tellurium [C01B 19/00](#); binary compounds of nitrogen with metals [C01B 21/06](#); azides [C01B 21/08](#); {compounds other than ammonia and cyanogen, containing nitrogen and other non-metals [C01B 21/082](#)}; metal amides [C01B 21/092](#); nitrites [C01B 21/50](#); phosphides [C01B 21/50](#); {compounds of noble gases [C01B 23/0005](#)}; phosphides [C01B 25/08](#); salts of oxyacids of phosphorus [C01B 25/16](#); carbides [C01B 32/90](#); compounds containing silicon [C01B 33/00](#); compounds containing boron [C01B 35/00](#); cyanides [C01C 3/08](#); salts of cyanic acid [C01C 3/14](#); salts of cyanamide [C01C 3/16](#); thiocyanates [C01C 3/20](#))

1/00	Oxides or hydroxides of sodium, potassium or alkali metals in general	3/16	. . by precipitation or adsorption {(C01D 3/145 takes precedence)}
1/02	. Oxides	3/18	. . with selective solvents
1/04	. Hydroxides	3/20	. . by melting
1/20	. . Preparation by reacting oxides or hydroxides with alkali metal salts	3/22	. Preparation in the form of granules, pieces, or other shaped products
1/22	. . . with carbonates or bicarbonates	3/24	. . Influencing the crystallisation process
1/24	. . . from or via fluorides or silico-fluorides	3/26	. Preventing the absorption of moisture or caking of the crystals
1/26	. . Preparation from or via cyano compounds, e.g. cyanides, cyanamides		
1/28	. . Purification; Separation	5/00	Sulfates or sulfites of sodium, potassium or alkali metals in general {(sulfites in general C01B 17/62)}
1/30	. . . by crystallisation	5/002	. {Preventing the absorption of moisture or caking of the crystals by additives}
1/32	. . . by absorption or precipitation	5/004	. {Preparation in the form of granules, pieces or other shaped products}
1/34	. . . with selective solvents	5/006	. {Recovery of sodium sulfate from coagulation baths for the spinning of viscose}
1/36	. . . by oxidation	5/008	. {Preparation of potassium sulfate from alunite}
1/38	. . . by dialysis	5/02	. Preparation of sulfates from alkali metal salts and sulfuric acid or bisulfates; Preparation of bisulfates
1/40	. . . by electrolysis	5/04	. Preparation of sulfates with the aid of sulfurous acid or sulfites, e.g. Hargreaves process {(pyrosulfites or metabisulfites C01D 5/145)}
1/42	. . Concentration; Dehydration	5/06	. Preparation of sulfates by double decomposition
1/44	. . Preparation in the form of granules, pieces, or other shaped products	5/08	. . with each other or with ammonium sulfate
		5/10	. . with sulfates of magnesium, calcium, strontium, or barium
3/00	Halides of sodium, potassium or alkali metals in general {(halides in general C01B 9/00)}	5/12	. Preparation of double sulfates of magnesium with sodium or potassium
3/02	. Fluorides	5/14	. Preparation of sulfites (C01D 5/04 takes precedence)
3/04	. Chlorides	5/145	. . {Pyrosulfites or metabisulfites}
3/06	. . Preparation by working up brines; seawater or spent lyes	5/16	. Purification {(C01D 5/145 takes precedence)}
3/08	. . Preparation by working up natural or industrial salt mixtures or siliceous minerals		
3/10	. Bromides		
3/12	. Iodides		
3/14	. Purification		
3/145	. . {by solid ion-exchangers or solid chelating agents}		

- 5/18 . Dehydration {(C01D 5/145 takes precedence)}
- 7/00 Carbonates of sodium, potassium or alkali metals in general**
 - 7/02 . Preparation by double decomposition
 - 7/04 . . with a fluoride or silico-fluoride (C01D 1/24 takes precedence)
 - 7/06 . Preparation via sodium or potassium magnesium carbonate
 - 7/07 . Preparation from the hydroxides
 - 7/08 . Preparation from or via cyano compounds of sodium or potassium (C01D 1/26 takes precedence)
 - 7/10 . Preparation of bicarbonates from carbonates (ammonia soda process C01D 7/18)
 - 7/12 . Preparation of carbonates from bicarbonates {or bicarbonate-containing product}
 - 7/123 . . {by thermal decomposition of solids in the absence of a liquid medium}
 - 7/126 . . {Multi-step processes, e.g. from trona to soda ash}
 - 7/14 . Preparation of sesquicarbonates
 - 7/16 . Preparation from compounds of sodium or potassium with amines and carbon dioxide
 - 7/18 . Preparation by the ammonia-soda process {(C01D 7/12 takes precedence)}
 - 7/22 . Purification
 - 7/24 . . Crystallisation
 - 7/26 . . by precipitation or adsorption
 - 7/28 . . with selective solvents
 - 7/30 . . by oxidation
 - 7/32 . . by dialysis
 - 7/34 . . by electrolysis
 - 7/35 . Varying the content of water of crystallisation or the specific gravity {(calcination B01J 6/00, F27B)}
 - 7/37 . . Densifying sodium carbonate
 - 7/38 . Preparation in the form of granules, pieces or other shaped products
 - 7/40 . . Influencing the crystallisation process
 - 7/42 . Preventing the absorption of moisture or caking
- 9/00 Nitrates of sodium, potassium or alkali metals in general {(preparation as fertilizers or of fertilizers containing them C05D 5/00)}**
 - 9/02 . Preparation by working-up natural salt mixtures
 - 9/04 . Preparation with liquid nitric acid
 - 9/06 . Preparation with gaseous nitric acid or nitrogen oxides
 - 9/08 . Preparation by double decomposition
 - 9/10 . . with ammonium nitrate
 - 9/12 . . with nitrates or magnesium, calcium, strontium, or barium
 - 9/14 . . of salts of potassium with sodium nitrate
 - 9/16 . Purification
 - 9/18 . Preparation in the form of shaped products, e.g. granules
 - 9/20 . Preventing the absorption of moisture or caking
- 13/00 Compounds of sodium or potassium not provided for elsewhere**
- 15/00 Lithium compounds**
 - 15/005 . {Lithium hexafluorophosphate}
 - 15/02 . Oxides; Hydroxides
 - 15/04 . Halides
 - 15/06 . Sulfates; Sulfites
- 15/08 . Carbonates; Bicarbonates
- 15/10 . Nitrates
- 17/00 Rubidium, caesium or francium compounds**
 - 17/003 . {Compounds of alkali metals}
 - 17/006 . . {Preparation of potassium compounds comprising precipitating potassium ions by an organic reagent or extracting them by a liquid organic phase}