

CPC COOPERATIVE PATENT CLASSIFICATION

C CHEMISTRY; METALLURGY

(NOTES omitted)

METALLURGY

C23 COATING METALLIC MATERIAL; COATING 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; INHIBITING CORROSION OF METALLIC MATERIAL OR INCRUSTATION IN GENERAL

(NOTES omitted)

C23G CLEANING OR DEGREASING OF METALLIC MATERIAL BY CHEMICAL METHODS OTHER THAN ELECTROLYSIS ([polishing compositions C09G](#); [detergents in general C11D](#))

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.

1/00	Cleaning or pickling metallic material with solutions or molten salts (with organic solvents C23G 5/02)	1/16	. . . using inhibitors
1/02	. with acid solutions	1/18	. . . . Organic inhibitors
1/025	. . {acidic pickling pastes}	1/19	. . Iron or steel
1/04	. . using inhibitors	1/20	. . Other heavy metals
1/06	. . . organic inhibitors	1/205	. . . {refractory metals}
	NOTE	1/22	. . Light metals
	In groups C23G 1/061 - C23G 1/068 an invention is classified in the last appropriate place	1/24	. with neutral solutions
1/061	. . . . {nitrogen-containing compounds}	1/26	. . using inhibitors
1/063	. . . . {heterocyclic compounds}	1/28	. with molten salts
1/065	. . . . {sulfur-containing compounds}	1/30	. . using inhibitors
1/066	. . . . {phosphorus-containing compounds}	1/32	. . Heavy metals
1/068	. . . . {compounds containing a C=C bond}	1/34	. . Light metals
1/08	. . Iron or steel	1/36	. Regeneration of waste pickling liquors
	NOTE	3/00	Apparatus for cleaning or pickling metallic material (with organic solvents C23G 5/04 ; apparatus for continuously conveying articles into baths B65G)
	In groups C23G 1/081 - C23G 1/088 an invention is classified in the last appropriate place	3/02	. for cleaning wires, strips, filaments continuously
1/081	. . . . {solutions containing H ₂ SO ₄ }	3/021	. . {by dipping}
1/083	. . . . {solutions containing H ₃ PO ₄ }	3/022	. . . {the objects following a helicoidal path}
1/085	. . . . {solutions containing HNO ₃ }	3/023	. . {by spraying}
1/086	. . . . {solutions containing HF}	3/024	. . {by a combination of dipping and spraying}
1/088	. . . . {solutions containing organic acids}	3/025	. . {Details of the apparatus, e.g. linings or sealing means}
1/10	. . Other heavy metals	3/026	. . . {for guiding the objects}
1/103	. . . {copper or alloys of copper}	3/027	. . {Associated apparatus, e.g. for pretreating or after-treating}
1/106	. . . {refractory metals}	3/028	. . . {for thermal or mechanical pretreatment}
1/12	. . Light metals	3/029	. . . {for removing the pickling fluid from the objects}
1/125	. . . {aluminium}	3/04	. for cleaning pipes
1/14	. with alkaline solutions		

5/00 Cleaning or de-greasing metallic material by other methods; Apparatus for cleaning or de-greasing metallic material with organic solvents

NOTE

Mixtures of organic solvents are classified according to the major component

- 5/02 . using organic solvents
- 5/024 . . containing hydrocarbons
- 5/028 . . containing halogenated hydrocarbons
- 5/02803 . . . {containing fluorine}
- 5/02806 . . . {containing only chlorine as halogen atom}
- 5/02809 . . . {containing chlorine and fluorine}
- 5/02812 {Perhalogenated hydrocarbons}
- 5/02816 {Ethanes}
- 5/02819 {C₂Cl₃F₃}
- 5/02822 {C₂Cl₄F₂}
- 5/02825 {containing hydrogen}
- 5/02829 {Ethanes}
- 5/02832 {C₂H₃Cl₂F}
- 5/02835 {C₂H₂Cl₂F₂}
- 5/02838 {C₂HCl₂F₃}
- 5/02841 {Propanes}
- 5/02845 {C₃H₃ClF₄}
- 5/02848 {C₂H₂Cl₂F₄}
- 5/02851 {C₂HCl₂F₅}
- 5/02854 . . . {characterised by the stabilising or corrosion inhibiting additives}
- 5/02858 {Hydrocarbons}
- 5/02861 {Oxygen-containing compounds}
- 5/02864 {Alcohols}
- 5/02867 {aliphatic}
- 5/0287 {aromatic}
- 5/02874 {Aldehydes or ketones}
- 5/02877 {Ethers}
- 5/0288 {Epoxy compounds}
- 5/02883 {Nitrogen-containing compounds}
- 5/02887 {Nitro-compounds}
- 5/0289 {N-heterocyclics}
- 5/02893 {Sulfur-containing compounds}
- 5/02896 {Phosphorus-containing compounds}
- 5/032 . . containing oxygen-containing compounds
- 5/036 . . . having also nitrogen
- 5/04 . . Apparatus
- 5/06 . using emulsions