CPC COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

PRINTING

PRINTING; LINING MACHINES; TYPEWRITERS; STAMPS

B41C PROCESSES FOR THE MANUFACTURE OR REPRODUCTION OF PRINTING

SURFACES (photomechanical processes for producing printing surfaces <u>G03F</u>; photoelectrical processes for producing printing surfaces <u>G03G</u>)

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 1/003 1/006	Forme preparation • {the relief or intaglio pattern being obtained by imagewise deposition of a liquid, e.g. by an ink jet} • {the relief or intaglio pattern being obtained by	1/10	 for lithographic printing; Master sheets for transferring a lithographic image to the forme {(chemical or electrical pretreatment B41N 3/03)}(neutralising or similar differentiation treatments of lithographic printing formes
1/02 1/025	 abrasive means, e.g. by sandblasting} Engraving; Heads therefor (recording on record carriers, heads therefor G11B) {characterised by means for the liquid etching of substrates for the manufacturing of relief or intaglio printing forms, already provided with resist pattern} 	1/1008	 treatments of lithographic printing formes B41N 3/08) • {by removal or destruction of lithographic material on the lithographic support, e.g. by laser or spark ablation; by the use of materials rendered soluble or insoluble by heat exposure, e.g. by heat produced from a light to heat transforming system; by on-the-press exposure or on-the-
	NOTE {Attention is drawn to the title of class <u>B41</u> and to subclass <u>H04N</u> , in particular to the Notes following the title of that subclass and to the group <u>H04N 1/00</u> }	1/1016	press development, e.g. by the fountain of photolithographic materials}
1/04	using heads controlled by an electric information signal	1/1025	• • • {using materials comprising a polymeric matrix containing a polymeric particulate material, e.g. hydrophobic heat coalescing particles}
1/045	Mechanical engraving heads	1/1033	 {by laser or spark ablation}
1/05	• • Heat-generating engraving heads, e.g. laser beam, electron beam	1/1041	• • {by modification of the lithographic properties without removal or addition of material, e.g. by
	NOTE {The fabrication of lithographic forms, screen printing forms or stencils with a laser	1/105	 the mere generation of a lithographic pattern} • {by electrocoagulation, by electro-adhesion or by electro-releasing of material, e.g. a liquid from a gel}
	beam or another high energetic radiation beam is not considered as involving an engraving. The preparation of such forms is covered by B41C 1/10 and B41C 1/14}	1/1058	• • {by providing a magnetic pattern, a ferroelectric pattern or a semiconductive pattern, e.g. by electrophotography}
1/055	Thermographic processes for producing printing	1/1066	 {by spraying with powders, by using a nozzle, e.g. an ink jet system, by fusing a previously coated powder, e.g. with a laser}
	formes {, e.g. with a thermal print head}(B41C 1/02 takes precedence; {fabrication of relief or intaglio plates by ablative recording with a laser beam	1/1075	• • {Mechanical aspects of on-press plate preparation (B41C 1/1008 - B41C 1/1066 take precedence)}
	B41C 1/05; production of lithographic forms B41C 1/10; producing of screen printing forms or stencils B41C 1/14})	1/1083	• • {Mechanical aspects of off-press plate preparation (<u>B41C 1/1008</u> - <u>B41C 1/1066</u> take precedence)}
1/06	• Transferring (<u>B41C 1/10</u> , <u>B41C 1/18</u> take precedence)	1/1091	• • {by physical transfer from a donor sheet having an uniform coating of lithographic material using
1/08	 by embossing, e.g. with a typewriter (typewriters adapted therefor <u>B41J 3/38</u>) 		thermal means as provided by a thermal head or a laser; by mechanical pressure, e.g. from a typewriter by electrical recording ribbon therefor}
		1/12	Multicolour formes

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1/14	• for stencil-printing or silk-screen printing	2210/22 . characterised by organic non-macromolecular
1/141	• • {by cutting or perforation with mechanical	additives, e.g. dyes, UV-absorbers, plasticisers
1/1/0	means; Electrical spark cutting}	 characterised by a macromolecular compound or binder obtained by reactions involving carbon-
1/142	 {using a galvanic or electroless metal deposition processing step} 	to-carbon unsaturated bonds, e.g. acrylics, vinyl
1/144	• • {by perforation using a thermal head}	polymers
1/145	• • {by perforation using an energetic radiation	 characterised by a macromolecular compound or binder obtained by reactions not involving carbon-
1/147	beam, e.g. a laser}• {by imagewise deposition of a liquid, e.g. from	to-carbon unsaturated bonds
1/14/	an ink jet; Chemical perforation by the hardening	2210/262 . Phenolic condensation polymers, e.g. novolacs,
	or solubilizing of the ink impervious coating or	resols
	sheet}	2210/264 • Polyesters; Polycarbonates
1/148	• • {by a traditional thermographic exposure using	2210/266 • Polyurethanes; Polyureas
	the heat- or light- absorbing properties of the	
1/16	pattern on the original, e.g. by using a flash} • Formes with areas rendered ink-resistant by	
1/16	covering with an amalgam; Printing plates for	
	amalgam printing	
1/18	• Curved printing formes or printing cylinders	
	{(<u>B41C 1/10</u> , <u>B41C 1/14</u> take precedence)}	
1/182	{Sleeves; Endless belts}	
1/184	• • {by transfer of the design to the cylinder, e.g.	
	from a lithographic printing plate; by drawing the	
	pattern on the cylinder; by direct cutting of the	
1/186	pattern on the cylinder}	
1/188	. {by casting}. {characterised by means for liquid etching of	
1/100	cylinders already provided with resist pattern}	
3/00	Reproduction or duplicating of printing formes	
3/02	• Stereotyping (casting stereotype plates <u>B41D 3/00</u>)	
3/04	 to produce rubber printing blocks 	
3/06	to produce printing blocks from plastics	
3/08	• Electrotyping; Application of backing layers thereon	
2201/00	Location, type or constituents of the non-imaging	
2201/00	layers in lithographic printing formes	
2201/02	Cover layers; Protective layers	
2201/04	Intermediate layers	
2201/06	Backcoats; Back layers	
2201/10	• characterised by inorganic compounds, e.g.	
	pigments	
2201/12	characterised by non-macromolecular organic	
2201/14	compounds	
2201/14	characterised by macromolecular organic compounds, e.g. binder, adhesives	
	compounds, e.g. officer, adhesives	
2210/00	Preparation or type or constituents of the imaging	
	layers, in relation to lithographic printing forme preparation	
2210/02	• Positive working, i.e. the exposed (imaged) areas	
2210/02	are removed	
2210/04	• Negative working, i.e. the non-exposed (non-	
	imaged) areas are removed	
2210/06	Developable by an alkaline solution	
2210/08	Developable by water or the fountain solution	
2210/10	Developable by an acidic solution	
2210/12	Developable by an organic solution	
2210/14	Multiple imaging layers	
2210/16	Waterless working, i.e. ink repelling exposed (imaged) or non-exposed (non-imaged) areas,	
	not requiring fountain solution or water, e.g. dry	
	lithography or driography	
	initiography of diffography	
2210/20	• characterised by inorganic additives, e.g. pigments,	

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