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 1/02 1/025	 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 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} NOTE 	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 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-press development, e.g. by the fountain of
	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	 photolithographic materials} • {characterised by structural details, e.g. protective layers, backcoat layers or several imaging layers}
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
	<u>NOTE</u>	1/105	the mere generation of a lithographic pattern}
	The fabrication of lithographic forms, screen printing forms or stencils with a laser beam or another high energetic radiation beam is not considered as involving an engraving.	1/105 1/1058	 • {by electrocoagulation, by electro-adhesion or by electro-releasing of material, e.g. a liquid from a gel} • {by providing a magnetic pattern, a ferroelectric
	The preparation of such forms is covered by		pattern or a semiconductive pattern, e.g. by electrophotography}
	<u>B41C 1/10</u> and <u>B41C 1/14</u>	1/1066	 • {by spraying with powders, by using a nozzle,
1/055	. Thermographic processes for producing printing formes {, e.g. with a thermal print head}(B41C $1/02$	1,40==	e.g. an ink jet system, by fusing a previously coated powder, e.g. with a laser}
	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)}
	<u>B41C 1/05</u> ; production of lithographic forms <u>B41C 1/10</u> ; producing of screen printing forms or stencils <u>B41C 1/14</u> })	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
1/08	 by embossing, e.g. with a typewriter (typewriters adapted therefor <u>B41J 3/38</u>) 		an uniform coating of lithographic material using 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		2010/02
1/14 1/141	 for stencil-printing or silk-screen printing {by cutting or perforation with mechanical 	 characterised by organic non-macromolecular additives, e.g. dyes, UV-absorbers, plasticisers
1/141	means; Electrical spark cutting}	2210/24 • characterised by a macromolecular compound or
1/142	{using a galvanic or electroless metal deposition processing step}	binder obtained by reactions involving carbon- 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
	beam, e.g. a laser}	binder obtained by reactions not involving carbon-
1/147	• • {by imagewise deposition of a liquid, e.g. from	to-carbon unsaturated bonds
	an ink jet; Chemical perforation by the hardening	2210/262 • Phenolic condensation polymers, e.g. novolacs, resols
	or solubilizing of the ink impervious coating or sheet}	2210/264 . Polyesters; Polycarbonates
1/148	• • {by a traditional thermographic exposure using	2210/266 . Polyurethanes; Polyureas
1/140	the heat- or light- absorbing properties of the	2216/200 V 1 51/4154111115, 1 51/415415
	pattern on the original, e.g. by using a flash}	
1/16	. Formes with areas rendered ink-resistant by	
	covering with an amalgam; Printing plates for	
1/10	amalgam printing	
1/18	• Curved printing formes or printing cylinders {(B41C 1/10, B41C 1/14 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	
	pattern on the cylinder}	
1/186	• {by casting}	
1/188	 {characterised by means for liquid etching of cylinders already provided with resist pattern} 	
2100		
3/00	Reproduction or duplicating of printing formes	
3/02 3/04	 Stereotyping (casting stereotype plates <u>B41D 3/00</u>) to produce rubber printing blocks 	
3/04	 to produce rubber printing blocks to produce printing blocks from plastics 	
3/08	 Electrotyping; Application of backing layers thereon 	
2201/00	T	
2201/00	Location, type or constituents of the non-imaging 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 characterised by macromolecular organic	
2201/14	compounds, e.g. binder, adhesives	
2210/00	· -	
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	
	are removed	
2210/04	• Negative working, i.e. the non-exposed (non-	
2210/04	imaged) areas are removed	
2210/06	Developable by an alkaline solution	
2210/08 2210/10	 Developable by water or the fountain solution Developable by an acidic solution 	
2210/10	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	
2210/22	lithography or driography	
2210/20	 characterised by inorganic additives, e.g. pigments, salts 	
	SaltS	

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