CPC  COOPERATIVE PATENT CLASSIFICATION

B  PERFORMING OPERATIONS; TRANSPORTING
     (NOTES omitted)

PRINTING

B41  PRINTING; LINING MACHINES; TYPEWRITERS; STAMPS

B41C  PROCESSES FOR THE MANUFACTURE OR REPRODUCTION OF PRINTING SURFACES (photomechanical processes for producing printing surfaces G03F; photoelectrical processes for producing printing surfaces G03G)

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  Forme preparation
     1/003  . [the relief or intaglio pattern being obtained by imagewise deposition of a liquid, e.g. by an ink jet]
     1/006  . [the relief or intaglio pattern being obtained by abrasive means, e.g. by sandblasting]
     1/02  . Engraving; Heads therefor (recording on record carriers, heads therefor G11B)
     1/025  . [characterised by means for the liquid etching of substrates for the manufacturing of relief or intaglio printing forms, already provided with resist pattern]

NOTE
Attention is drawn to the title of class B41 and to subclass H04N, in particular to the Notes following the title of that subclass and to the group H04N 1/00

1/04  . . using heads controlled by an electric information signal
1/045  . . Mechanical engraving heads
1/05  . . Heat-generating engraving heads, e.g. laser beam, electron beam

NOTE
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. The preparation of such forms is covered by B41C 1/10 and B41C 1/14

1/055  . Thermographic processes for producing printing 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 B41C 1/05; production of lithographic forms B41C 1/10; producing of screen printing forms or stencils B41C 1/14)
1/06  . Transferring (B41C 1/10, B41C 1/18 take precedence)
1/08  . by embossing, e.g. with a typewriter (typewriters adapted therefor B41J 3/38)

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)
     1/1008  . [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 photolithographic materials]

WARNING
Group B41C 1/1008 is impacted by reclassification into group B41C 2210/16.
Groups B41C 1/1008 and B41C 2210/16 should be considered in order to perform a complete search.

1/1016  . . [characterised by structural details, e.g. protective layers, backcoat layers or several imaging layers]

WARNING
Group B41C 1/1016 is impacted by reclassification into group B41C 2210/16.
Groups B41C 1/1016 and B41C 2210/16 should be considered in order to perform a complete search.

1/1025  . . [using materials comprising a polymeric matrix containing a polymeric particulate material, e.g. hydrophobic heat coalescing particles]
1/1033  . . [by laser or spark ablation]
1/1041  . . [by modification of the lithographic properties without removal or addition of material, e.g. by the mere generation of a lithographic pattern]
1/105  . . [by electrocoagulation, by electro-adhesion or by electro-releasing of material, e.g. a liquid from a gel]
Preparation or type or constituents of the imaging layers, in relation to lithographic printing form preparation

2210/02 . Positive working, i.e. the exposed (imaged) areas 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 diography

WARNING

Group B41C 2210/16 is incomplete pending reclassification of documents from groups B41C 1/1008 and B41C 1/1016.

Groups B41C 1/1008, B41C 1/1016 and B41C 2210/16 should be considered in order to perform a complete search.

2210/20 . characterised by inorganic additives, e.g. pigments, salts
2210/22 . characterised by organic non-macromolecular additives, e.g. dyes, UV-absorbers, plasticisers
2210/24 . characterised by a macromolecular compound or binder obtained by reactions involving carbon-to-carbon unsaturated bonds, e.g. acrylics, vinyl polymers
2210/26 . characterised by a macromolecular compound or binder obtained by reactions not involving carbon-to-carbon unsaturated bonds
2210/262 . Phenolic condensation polymers, e.g. novolacs, resols
2210/264 . Polysteres; Polycarbonates
2210/266 . Polyurethanes; Polyureas