

Search history

Search PN=(wo2014201005) (Results 1)

1:

Search [SP]: 1-9. (canceled) 10. an apparatus for forming a high-definition lithographic image on an exterior surface of a metallic container, comprising: a first plate cylinder a first printing plate attached to a circumference of the first plate cylinder a first inker operable to transfer a first ink to the first printing plate a second plate cylinder a second printing plate attached to a circumference of the second plate cylinder, the second printing plate including a relief area a second inker operable to transfer a second ink to the second printing plate a blanket cylinder a flexible transfer plate comprised of a saturated chain of polymethylene affixed to the blanket cylinder, the flexible transfer plate including a first image that aligns with the relief area of the second printing plate, wherein the blanket cylinder is operable to move the flexible transfer plate into contact with the first and second printing plates such that the first ink is transferred from the first printing plate to the first image and the second ink is transferred from the second printing plate to a portion of the flexible transfer plate and a support cylinder operable to move the metallic container into contact with the flexible transfer plate affixed to the blanket cylinder, wherein the first and second inks are transferred from the flexible transfer plate to the exterior surface of the metallic container to form the high-definition lithographic image. 11. the apparatus of claim 10, wherein the first image is formed in a laser engraving process. 12. the apparatus of claim 10, wherein the first ink comprises at least one of a thermochromic ink, a photochromic ink, a scented thermochromic ink, a fluorescent ink, a uv ink, a black light ink, an infrared ink, a phosphorescent ink, a pressure sensitive ink, a tactile ink, a thermo-tactile ink, a leuco dye, and a matte ink. 13. the apparatus of claim 10, wherein the saturated chain of polymethylene is an ethylene propylene rubber. 14. the apparatus of claim 10, wherein the saturated chain of polymethylene is an m-class rubber. 15. the apparatus of claim 10, wherein the saturated chain of polymethylene is an ethylene propylene diene monomer. 16. the apparatus of claim 10, wherein at least a portion of the first image has a depth that is lower than a plane defined by a face portion of the flexible transfer plate. 17-20. (canceled) 21. a decorator to decorate an exterior surface of a plurality of metallic containers with different images, comprising: a first plate cylinder with a first printing plate which includes a first ink receiving region and a relief area that will not receive ink a first inker to transfer a first ink to the first ink receiving region a second plate cylinder with a second printing plate which includes a second ink receiving region a second inker to transfer a second ink to the second ink receiving region a blanket cylinder rotationally aligned with the first and second plate cylinders a first transfer plate with a first image affixed to the blanket cylinder, the first transfer plate comprised of a saturated chain of polymethylene and a second transfer plate with a second image affixed to the blanket cylinder, wherein the relief area of the first printing plate aligns with the first and second images, and wherein the blanket cylinder is operable to rotate with respect to the first and second plate cylinders such that the first ink receiving region of the first printing plate transfers the first ink to a portion of each of the first and second transfer plates and the second ink receiving region of the second printing plate transfers the second ink to the first and second images, and wherein, as the blanket cylinder continues rotating, the first transfer plate contacts an exterior surface of a first metallic container which is decorated with the first ink and with the first image and the second transfer plate contacts an exterior surface of a second metallic container which is decorated with the first ink and with the second image. 22. the decorator of claim 21, wherein the first image on the first transfer plate is formed by removing at least some of a face portion of the first transfer plate in a laser engraving process. 23. the decorator of claim 21, wherein at least a portion of the first image has a depth that is lower than a first plane defined by a face portion of the first transfer plate and no portion of the first image projects above the first plane. 24. the decorator of claim 21, wherein the first image of the first transfer plate is surrounded by a relief area that will not receive ink from the first and second printing plates such that the first image formed on the first metallic container is surrounded by a non-inked area. 25. the decorator of claim 21, further comprising a support cylinder to move the first and second metallic containers into contact with the first and second transfer plates. 26. the decorator of claim 21, wherein the saturated chain of polymethylene of the first transfer plate is an m-class rubber. 27. the decorator of claim 21, wherein the saturated chain of polymethylene of the first transfer plate is an ethylene propylene rubber. 28. the decorator of claim 21, wherein the saturated chain of polymethylene of the first transfer plate is an ethylene propylene diene monomer. 29. a decorator with transfer plates to decorate an exterior surface of a generally cylindrical container, comprising: a blanket cylinder a first transfer plate affixed to the blanket cylinder, the first transfer plate including a first image with at least a portion of the first image having a depth that is lower than a first plane defined by a face portion of the first transfer plate and no portion of the first image projecting above the first plane, wherein the first transfer plate is comprised of a saturated chain of polymethylene a first plate cylinder a first printing plate interconnected to the first plate cylinder, wherein the first printing plate is operable to transfer a first ink to at least a portion of the first transfer plate a second plate cylinder a second printing plate interconnected to the second plate cylinder, the second printing plate including a second image, wherein the second printing plate is operable to transfer a second ink from the second image to the first transfer plate, and wherein the second printing plate does not transfer the second ink to the first image and a support element to move a first container into contact with the first transfer plate, wherein the first and second inks are transferred from the first transfer plate to an exterior surface of the first container to form the first and second images on the first container. 30. the decorator of claim 29, wherein the saturated chain of polymethylene of the first transfer plate comprises at least one of: an ethylene propylene rubber an m-class rubber and an ethylene propylene diene monomer. 31. the decorator of claim 29, wherein the first image on the first transfer plate is a negative comprising relief areas that will not receive ink from the first printing plate. 32. the decorator of claim 29, further comprising a second transfer plate affixed to the blanket cylinder, the second transfer plate including a third image, wherein the first printing plate is operable to transfer the first ink to at least a portion of the second transfer plate and the second printing plate is operable to transfer the second ink from the second image to the second transfer plate, wherein the second printing plate does not transfer the second ink to the third image, and wherein the first and second inks are subsequently transferred from the second transfer plate to an exterior surface of a second container to form the second and third images on the second container. 33. the decorator of claim 29, wherein the first image on the exterior surface of the first container is formed of the first ink and the second image on the exterior surface of the first container is formed of the second ink. (Results 0)

Search printing and process and photopolymer and plates (Results 217)

3:

Search 3 and container and metallic (Results 1)

4:

Search 3 and removably (Results 2)

5:

Search 3 and negative (Results 67)

6:

Title: **PRINTING PROCESS** USING SOFT **PHOTOPOLYMER PLATES**

Abstract: Source: US2014360394A The present invention relates to using soft **photopolymer plates** in a **printing process**, and more specifically, to an apparatus and methods of using soft **photopolymer** materials to decorate an exterior surface of cylindrical metallic containers with high definition graphics and other indicia.

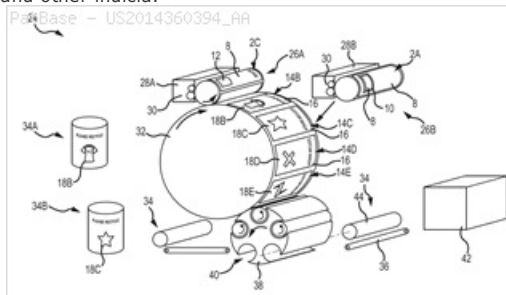
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B41F17/14 B41M1/20 B41M1/28 (Advanced/Non-invention)

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US: 1/1 101/142 101/395 101/450.1 101/453 101/457



Family:

Publication number	Publication date	Application number	Application date
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WO16168488 A1	20161020	WO2016US27576	20160414

Priority:

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Probable Assignee: BALL CORP

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Inventor(s): CHRIS CARRERAS

Agent(s): MADDERNS PATENT AND TRADE MARK ATTORNEYS; SMART AND BIGGAR; JOHANSSON AND LANGLOIS LTDA; JUAN PABLO CADENA SARMIENTO; EISENFUEHR SPEISER; ONDA MAKOTO; ONDA HIRONORI; SHERIDAN ROSS PC; KUGLER BRUCE A ET AL; KUGLER BRUCE A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: MICRO-OPTIC SECURITY AND IMAGE PRESENTATION SYSTEM

Abstract: Source: US2005180020A A film material utilizing a regular two-dimensional array of non-cylindrical lenses to enlarge micro-images, called icons, to form a synthetically magnified image through the united performance of a multiplicity of individual lens/icon image systems. The synthetic magnification micro-optic system includes one or more optical spacers (5), a micro-image formed of a periodic planar array of a plurality of image icons (4) having an axis of symmetry about at least one of its planar axes and positioned on or next to the optical spacer (5), and a periodic planar array of image icon focusing elements (1) having an axis of symmetry about at least one of its planar axes, the axis of symmetry being the same planar axis as that of the micro-image planar array (4). A number of distinctive visual effects, such as three-dimensional and motion effects, can be provided by the present system.

Classifications:**International (ipc 8-9):** A61B1/00 B23P11/00 B32B3/30 B32B7/06

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B44F7/00 D21C9/10 D21H21/42 D21H21/44 G01B15/02 G01N23/02

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G42D15/10 (Advanced/Invention);

D21H21/44 G03H1/00 (Advanced/Non-invention);

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G07D7/12 (Core/Invention);

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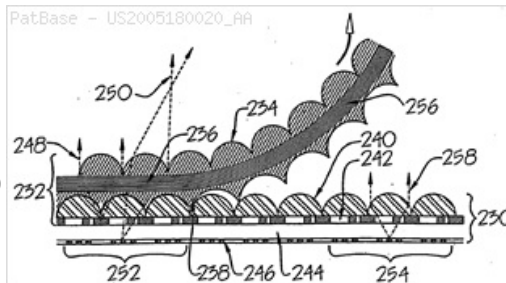
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US: 156/344 156/711 156/711S 156/712 156/712S 283/109 283/109P 283/72 283/72P 283/72S 29/428 29/428P 359/618

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**Family:**

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JP2013537640 A2	20131003	JP20130516710	20110622
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RU2006121097 A	20071227	RU20060121097	20041122
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RU2010142167 A	20120420	RU20100142167	20101015
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Priority:

AU20040294182	20041122	AU20060246716	20060518	AU20100226869	20100930
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Probable Assignee: VISUAL PHYSICS LLC

Assignee(s): (std): NANOVENTIONS INC ; STEENBLIK RICHARD A ; HURT MARK J ; JORDAN GREGORY R ; NANOVENTIONS HOLDINGS LLC ; VISUAL PHYSICS LLC ; VIZUAL FIZIKS LLS ; VIZUAL FIZ LLS ; CAPE SAMUEL M

Assignee(s): CRANE AND CO INC ; CRANE SECURITY TECHNOLOGIES INC ; HIGHBRIDGE PRINCIPAL STRATEGIES LLC COLLATERAL AGENT AS ; HURT MARK ; TORONTO DOMINION TEXAS LLC ADMINISTRATIVE AGENT AS ; VISUAL PHYSICSLLC ; TORONTO DOMINION (TEXAS) LLC ADMINISTRATIVE AGENT AS ; VISUAL PHYSICS LLC ALPHARETTA ; VISUAL FIZIKS LLC ; NANOVENTIONS INC Q ; TORONTO DOMINION (TEXAS) LLC ADMINISTRATIVE AGENT ; STEENBLIK RICHARD ; JORDAN GREGORY ; JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS

Inventor(s): (std): CAPE SAMUEL M ; CAPE SAMUEL M C ; DZHORDAN GREGORI R ; GREGORY R JORDAN ; HERT MARK J ; HURT MARK ; HURT MARK J ; JORDAN GREGORI P ; JORDAN GREGORY ; JORDAN GREGORY R ; KAPE SAMUEHL M ; KEJP SAMUEL M ; KHURT MARK DZH ; KHURT MARK DZH ; MARK J HURT ; RICHARD A STEENBLIK ; STEENBLIK RICHARD ; STEENBLIK RICHARD A ; STEENBLIK RICHARD A HURT MARK ; STEENBLIK RICHARD A ; STINBLIK RICHARD A

Inventor(s): STEENBLIK RICHARD A PRINCEVILLE ; SAMUEL M CAPE ; SAMUEL MC CAPE ; JORDAN GREGORY R ALPHARETTA ; JORDAN GREGORY R CUMMING ; HURT MARK J KILAUEA

Agent(s): SHELSTON IP; FB RICE; SHELSTON IP PTY LTD; SMART AND BIGGAR; VILLASECA; GRUENECKER PATENT U RECHTSANWALTE PARTG MBB; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER; VAN GORKOM LUCAS MARIJN; SEITZ HOLGER FRITZ KARL; GRUENECKER PATENT U RECHTSANWALTE PARTG MBB; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER ANWALTSSOZIIETAET; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER; SCHUSTER THOMAS; MILTENYI PETER; REINHOLD COHN AND PARTNERS; THOMAS KAYDEN HORSTEMEYER AND RISLEY LLP; HOLLAND AND BONZAGNI PC; DEVEAU TODD; TODD; MARY R; BONZAGNI MARY R ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST

SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: IMAGEABLE **PRINTING** PLATE FOR ON-PRESS DEVELOPMENT

Abstract: Source: US2007026342A A novel coating for lithographic **printing plates** can be imagewise exposed to radiation and then directly **processed** with only water to remove the non-exposed regions of the coating. The coating comprises a polymer, a monomer and/or oligomer, polymerization or cross link initiator, stabilizer, and dye or pigment, such that after imaging, the non-imaged resin areas are removable from the planar surface by penetration of water through the non-imaged coating without dissolution of the resin components of the coating, to form a lithographic **printing** plate with clearly defined image and non-image areas. The stabilizer is a solvent soluble, partially water soluble, non-polymerizable organic component that enables the coating to be removable by water in the non-cross linked areas.

Classifications:

International (IPC 8-9): B05D3/12 B32B3/30 B41C1/10 B41F1/18 B41F7/00 B41F7/02 B41L25/14 B41M5/00 B41N1/00 B41N1/08 B41N1/14 B41N3/00 C08F2/00 G03C1/00 G03C5/29 G03F1/00 G03F7/00 G03F7/004 G03F7/038 G03F7/20 G03F7/26 G03F7/38 G03F7/40 (Advanced/Invention); B05D3/12 B32B3/30 B41C1/10 B41F7/00 B41N1/00 B41N1/12 G03C1/00 G03F7/00 G03F7/004 G03F7/038 G03F7/20 G03F7/38 (Core/Invention)

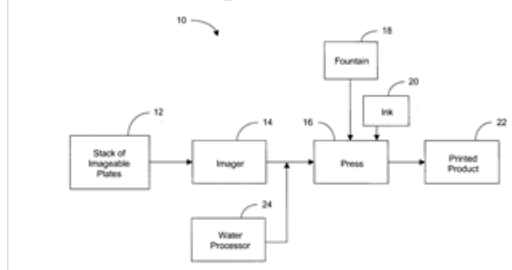
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European: B41C1/10A B41C1/10P G03F7/027 G03F7/30D

G03F7/30E2 G03F7/36 L41C1/10A1 L41C201/02 L41C210/04 L41C210/08 L41C210/266 S03F7/029

US: 101/130 101/141 101/263 101/263.1 101/350.1 101/350.2 101/450.1 101/453 101/463.1 101/463.100P 101/463.100S 101/465 101/467 427/444 427/444S 428/155 428/155S 430/270.1 430/270.100P 430/270.100S 430/273.1 430/280.1 430/280.100P 430/281.1 430/281.100S 430/284.1 430/302 430/302S 430/309 430/434 430/434S 526/72

PatBase - US2007026342_AA

**Family:**

Publication number	Publication date	Application number	Application date
EP1910897 A2	20080416	EP20060788457	20060726
EP1910897 A4	20101222	EP20060788457	20060726
JP2009502574 T2	20090129	JP20080524074T	20060726
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Priority:

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US20110134286	20110603	US20140478312	20140905	WO2006US28881	20060726
WO2013US29378	20130306				

Probable Assignee: ANOCOIL LLC**Assignee(s):** (std): ANOCOIL CORP ; FROMSON H A ; FROMSON HOWARD A ; PERRON PAUL A ; RYAN WILLIAM J ; ROZELL WILLIAM J**Assignee(s):** ALLY BANK AGENT AS ; PA ACQUISITION HOLDCO LLC ; ANOCOIL LLC**Inventor(s):** (std): FROMSON HOWARD A ; PERRON PAUL A ; ROZELL WILLIAM J ; RYAN WILLIAM J ; KITSON ANTHONY PAUL ; ANDERSON BRIAN L**Inventor(s):** RYAN WILLIAM ; ROZELL WILLIAM ; PERRON PAUL ; FROMSON HOWARD**Agent(s):** COLLINS JOHN DAVID; ALIX YALE AND RISTAS LLP; RISTAS L JAMES ET AL**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY NZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: Composite relief image **printing** elements

Abstract: Source: US2002025492A High-quality composite **printing** elements are prepared without the need for precise registration of constituent photocurable elements by disposing at least one photocurable element, and preferably a plurality of photocurable elements, upon a surface of a **printing** element in approximate register and then transferring a computer-generated **negative** onto a surface of the elements.

Classifications:

International (IPC 8-9): B41C1/00 B41C1/04 B41C1/05 B41C1/10 B41C1/18 B41F5/24 G03F1/00 G03F7/00 G03F7/004 G03F7/031 G03F7/032 G03F7/09 G03F7/095 G03F7/11 G03F7/16 G03F7/24 G03F7/26 G03F9/00 (Advanced/Invention);

B41C1/10 G03F7/00 G03F7/004 G03F7/26 G03F9/00 (Advanced/Non-invention);

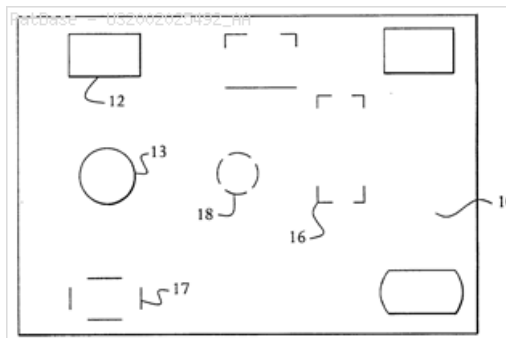
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International (IPC 1-7): B41C1/04 B41C1/10 B41C1/18 G03F1/00 G03F7/00 G03F7/004 G03F7/028 G03F7/09 G03F7/095 G03F7/11 G03F7/16 G03F7/24 G03F7/26 G03F9/00

CPC: G03F7/2018 G03F9/00 B41C1/05 B41C1/18 B41C1/182 B41C1/184 G03F7/202

European: B41C1/05 B41C1/18 G03F7/20A6D2 G03F7/20A6D4 G03F9/00 L41C1/18A L41C1/18B

US: 347/1 430/22 430/22S 430/271.1 430/271.100P 430/273.1 430/273.100S 430/300 430/300S 430/306 430/306S 430/5



Family:

Publication number	Publication date	Application number	Application date
AR005892 AA	19990721	AR1997P100639	19970218
AT239241 E	20030515	AT19970904160T	19970206
AT332519 E	20060715	AT19980953954T	19981023
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Priority:

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US20000704320	20001102	US20010922826	20010806	WO2000US25537	20000918
WO1997US01632	19970206	WO1998US22536	19981023		

Probable Assignee: MACDERMID GRAPHIC ARTS INC

Assignee(s): (std): MACDERMID GRAPHIC ARTS INC ; MACDERMID GRAPHIC ARTS ; POLYFIBRON TECHNOLOGIES INC ; POLYFIBRON TECHNOLOGIES ; MCDERMID IMAGE TECHNOLOGIES IN

Assignee(s): PT SUB INC ; MCDERMID IMAGE TECHNOLOGIES INC ; MACDERMID GRAPHIC ARTS LLC ; MACDERMID PRINTING SOLUTIONS LLC ; MACDERMID PRINTING SOLUTIONS LLC SUCCESSOR IN INTEREST TO MACDERMID GRAPHIC ARTS INC AS ; MACDERMID PRINTING SOLUTIONS LLC SUCCESSOR IN INTEREST TO POLYFIBRON TECHNOLOGIES INC AS ; MURPHY EDWARD ; RECCHIA DAVID ; ROSEN DANIEL ; MACDERMID PRINTING SOLUTIONS LLC AS SUCCESSOR IN INTEREST TO POLYFIBRON TECHNOLOGIES INC ; MACDERMID PRINTING SOLUTIONS LLC AS SUCCESSOR IN INTEREST TO MACDERMID GRAPHIC ARTS INC ; POLYFIBRON TECHNOLOGIES INC SOC ORGANIZADA BAJO LAS LEYES DEL ESTADO DE DELAWARE ; BARCLAYS BANK PLC SUCCESSOR COLLATERAL AGENT AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AGE ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AGENT AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH FIRST LIEN COLLATERAL AGENT AG AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH SECOND LIEN COLLATERAL AGENT AG AS ; CROWELL JOSEPH ; CUSDIN GEORGE

Inventor(s): (std): CROWELL JOSEPH ; CUSDIN GEORGE ; MURPHY EDWARD ; RECCHIA DAVID ; ROSEN DANIEL ; JOSEPH CROWELL ; GEORGE CUSDIN ; EDWARD MURPHY ; DAVID RECCHIA ; DANIEL ROSEN

Agent(s): PETER MAXWELL AND ASSOCIATES; GOWLING LAFLEUR HENDERSON LLP; VILLASECA

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Title: Laser imaged **printing plates**

Abstract: Source: US2001053499A Laser-imageable flexographic **printing plates** and a method of making same are disclosed. A thin polymeric film doped with a UV absorber is laminated to a **photopolymer** layer. The film is ablated from the **photopolymer** using a laser operating at a selected wavelength to create an in situ **negative**. The resulting **negative** can be subjected to typical UV flood exposure and development.

Classifications:

International (IPC 8-9): B41C1/05 B41C1/055 B41F5/24 B41N1/06 G03F1/00 G03F7/039 G03F7/26 G03G17/00 G11B7/09 G11B7/12 (Advanced/Invention);

B41N1/00 (Advanced/Non-invention);

G03F1/00 G03F7/039 G11B7/09 G11B7/12 (Core/Invention);

B41C1/55 G03G17/00 (Core/Non-invention)

International (IPC 1-7): B41C1/00 B41C1/05 B41C1/55 B41D7/00 B41L3/06 B41N1/06 B41N1/12 G03C1/73 G03C1/76 G03C1/805 G03C1/815 G03C5/16 G03F1/00 G03F1/00 G03F1/10 G03F7/00 G03F7/031 G03F7/039 G03F7/09 G03F7/095 G03F7/11 G03F7/213 G03F7/26 G03F7/30 G03F7/38 G03F9/00 G03G17/00

CPC: Y10S430/146 Y10S430/145 G03F7/202

European: G03F7/20A6D4

US: 430/271.1 430/271.100S 430/273.1 430/273.100P 430/273.100S

430/284.1 430/284.100S 430/300 430/300P 430/302 430/306

430/306P 430/306S 430/309 430/325 430/325S 430/326 430/327

430/327S 430/329 430/329S 430/5 430/512 430/5S 430/944

430/944S 430/945 430/945S

END

Family:

Publication number	Publication date	Application number	Application date
AU199459452 A1	19950105	AU19940059452	19940412
AU665147 B2	19951214	AU19940059452	19940412
BRPI9402431 A	19950124	BR1994PI02431	19940615
CA2121865 AA	19941226	CA19942121865	19940421
CA2121865 C	20060815	CA19942121865	19940421
CN1111761 A	19951115	CN19941007232	19940624
DE4339010 A1	19950105	DE19934339010	19931110
DE4339010 C2	20000518	DE19934339010	19931110
EP0634695 A1	19950118	EP19940250153	19940614
EP0634695 B1	19990908	EP19940250153	19940614
ES2138646 T3	20000116	ES19940250153T	19940614
JP3463953 B2	20031105	JP19940162899	19940622
JP7017151 A2	19950120	JP19940162899	19940622
KR19950000412 A	19950103	KR19940009633	19940429
NZ260292 A	19951221	NZ19940260292	19940412
TW247297 B	19950511	TW19940104766	19940525
US2001053499 AA	20011220	US20010898327	20010703
US2002009673 AA	20020124	US20010898152	20010703
US2002018963 AA	20020214	US20010921589	20010803
US2003022107 AA	20030130	US20020153946	20020523
US5925500 A	19990720	US19970916101	19970821
US6605410 BB	20030812	US20020153946	20020523
US6756181 BB	20040629	US20010921589	20010803
US6916596 BB	20050712	US20010898152	20010703

Priority:

CA19942121865 19940421	US19930082689 19930625	US19950479337 19950607
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Probable Assignee: MACDERMID PRINTING SOLUTIONS LLC

Assignee(s): (std): GRACE W R AND CO ; KANGA RUSTOM S ; KANGA RUSTOM SAM ; PT SUB INC ; YANG MICHAEL W ; RANDALL ALVIN V ; POLYFIBRON TECHNOLOGIES INC ; RANDALL ALVIN VARNARD ; YANG MICHAEL WEN CHIEN ; WR GRACE AND CO CONN ; W R GRACE AND CO CONN

Assignee(s): YANG MICHAEL WEN CHEIN ; W R GRACE AND CO CONN NEW YORK N Y US ; MACDERMID PRINTING SOLUTIONS LLC ; MACDERMID PRINTING SOLUTIONS LLC AS SUCCESSOR IN INTEREST TO POLYFIBRON TECHNOLOGIES INC ; W R GRACE AND CO ; W R GRACE AND CO CONNUS ; WR GRACE AND CO ; W R GRACE AND CO CONNECTICUT ; MACDERMID GRAPHIC ARTS ; MACDERMID GRAPHIC ARTS INC ; MACDERMID GRAPHIC ARTS LLC ; BARCLAYS BANK PLC SUCCESSOR COLLATERAL AGENT AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH AS COLLATERAL ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AGE ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AGENT AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH FIRST LIEN COLLATERAL AGENT AG AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH SECOND LIEN COLLATERAL AGENT AG AS

Inventor(s): (std): ALVIN V RANDALL ; KANGA RUSTOM SAM ; MICHAEL W YANG ; RANDALL ALVIN VARNARD ; RUSTOM S KANGA ; YANG MICHAEL WEN CHIEN ; YANG MICHAEL WEN CHEIN ; RASUTOMU ESU KANGA ; MAIKERU DABURIYUU YANGU ; ARUBIN BUI RANDOORU ; YANG MICHAEL W ; RANDALL ALVIN V ; KANGA RUSTOM S ; KANGA RUSTON S

Inventor(s): KANGA RUSTOM SAM COLUMBIA MD ; YANG MICHAEL WEN CHIEN EAST POINT GA ; RANDALL ALVIN VARNARD MARIETTA GA

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; CARMODY AND TORRANCE LLP

Designated states: ES FR GB IT SE

Title: METHOD OF IMPROVING **PRINT** PERFORMANCE IN FLEXOGRAPHIC **PRINTING PLATES**

Abstract: Source: US2011079158A A method of making a relief image **printing** element from a photosensitive **printing** blank is provided. A photosensitive **printing** blank with a laser ablatable layer disposed on at least one photocurable layer is ablated with a laser to create an in situ mask. The **printing** blank is then exposed to at least one source of actinic radiation through the in situ mask to selectively cross link and cure portions of the photocurable layer. Diffusion of air into the at least one photocurable layer is limited during the exposing step and preferably at least one of the type, power and incident angle of illumination of the at least one source of actinic radiation is altered during the exposure step. The resulting relief image comprises a plurality of dots and a dot shape of the plurality of dots that provide optimal **print** performance on various substrates, including corrugated board.

Classifications:

International (IPC 8-9): B32B3/30 B41C1/02 B41C1/05 B41C1/055 B41M1/04 B41N1/00 B41N1/06 B41N1/12 B41N3/00 G01B11/00 G01N21/55 G03F1/00 G03F7/00 G03F7/09 G03F7/095 G03F7/11 G03F7/20 G03F7/26 G03F7/36 G03F7/38

H01L21/027 (Advanced/Invention);

G03F7/14 (Advanced/Non-invention);

G03F1/00 (Core/Non-invention)

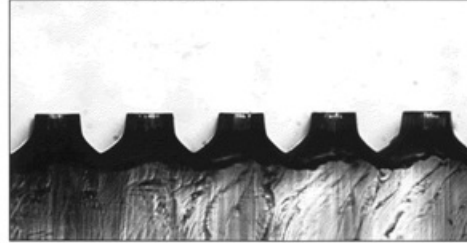
CPC: G03F7/092 Y10T428/24521 G03F7/2012 B41C1/055 B41M1/04 B41N1/12 G03F7/09 G03F7/201 G03F7/202

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G03F7/20A6D4 L41C1/055 L41M1/04 L41N1/12

US: 101/395 101/453 101/463.1 428/161 428/161S 430/270.1 430/271.1 430/273.1 430/302 430/306 430/306P

PatBase - US2011079158_AA



Family:

Publication number	Publication date	Application number	Application date
BR112012021546 A2	20160816	BR20121121546	20110211
CA2773364 AA	20120306	CA20102773364	20100824
CA2773364 C	20130813	CA20102773364	20100824
CA2789500 AA	20110901	CA20112789500	20110211
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CN102576197 B	20131113	CN201080044400	20100824
CN102782445 A	20121114	CN201180011111	20110211
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EP2483748 A1	20120808	EP20100820984	20100824
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EP2483748 B1	20170517	EP20100820984	20100824
EP2539667 A1	20130102	EP20110747858	20110211
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EP3023839 A1	20160525	EP20150202717	20110211
IN02098CN2012 A	20121102	IN2012CN02098	20120307
JP2013506867 T2	20130228	JP20120532088T	20100824
JP2013520708 T2	20130606	JP20120555027T	20110211
JP2016157125 A2	20160901	JP20160051829	20160316
JP5368642 B2	20131218	JP20120532088T	20100824
JP5975885 B2	20160823	JP20120555027T	20110211
JP6084722 B2	20170222	JP20160051829	20160316
KR101731258 B1	20170428	KR20167011153	20110211
KR20120128150 A	20121126	KR20127025313	20110211
KR20160052793 A	20160512	KR20167011153	20110211
MX2012003946 A1	20120831	MX20120003946	20100824
MX2012009891 A1	20121001	MX20120009891	20110211
TW201124793 A	20110716	TW20100130410	20100909
TW201205206 A	20120201	TW20110105760	20110222
TWI420260 B	20131221	TW20110105760	20110222
TWI427404 B	20140221	TW20100130410	20100909
US2011079158 AA	20110407	US20100660451	20100226
US2011081614 AA	20110407	US20090571523	20091001
US2012164584 AA	20120628	US20120411762	20120305
US8158331 BB	20120417	US20090571523	20091001
US8470517 BB	20130625	US20120411762	20120305
WO11041046 A1	20110407	WO2010US46453	20100824
WO1106171 A1	20110901	WO2011US24463	20110211

Priority:

EP20110747858	20110211	JP20120555027T	20110211	US20090571523	20091001
US20100660451	20100226	US20120411762	20120305	JP20160051829	20160316
WO2010US46453	20100824	WO2011US24463	20110211		

Probable Assignee: MACDERMID PRINTING SOLUTIONS LLC

Assignee(s): (std): GOTSICK TIMOTHY ; MACDERMID PRINTING SOLUTION LLC ; MACDERMID PRINTING SOLUTIONS LLC ; RECCHIA DAVID A ; MACDERMID PRINTING SOLUTIONS

Assignee(s): BARCLAYS BANK PLC SUCCESSOR COLLATERAL AGENT AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH FIRST LIEN COLLATERAL AGENT AG AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH SECOND LIEN COLLATERAL AGENT AG AS

Inventor(s): (std): GOTSICK TIMOTHY ; RECCHIA DAVID ; RECCHIA DAVID A ; DAVID A RECCHIA ; TIMOTHY GOTSICK

Inventor(s): DAVID RECCHIA

Agent(s): GOWLING LAFLEUR HENDERSON LLP; JENKINS PETER DAVID; NAGARE YOSHIHIRO; MATSUDA NAKO; HIROTA KOICHI; CARMODY AND TORRANCE LLP; CORDANI JOHN L

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU

CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL
IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT
MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST
SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: **PHOTOPOLYMER** SACHET

Abstract: Source: US2003039915A The invention provides a **photopolymer** package for use in making a hand stamp plate, the package consisting of a sachet containing a photocurable liquid polymer, the walls of the sachet being formed of material capable of being released from the cured **photopolymer**. Methods for the formation of the package and the hand stamp plate are also provided. The invention eliminates the requirement for the use of a backing layer in the package and thereby offers significant advantages over the prior art in terms of cost and efficiency.

Classifications:

International (IPC 8-9): G03F7/00 G03F7/12 G03F7/20 G03F7/40 (Advanced/Invention);

G03F7/16 G03F7/38 (Advanced/Non-invention);

G03F7/00 G03F7/12 G03F7/20 G03F7/40 (Core/Invention);

G03F7/16 G03F7/38 (Core/Non-invention)

International (IPC 1-7): G03C1/73 G03F7/00 G03F7/038 G03F7/09 G03F7/12 G03F7/16 G03F7/20 G03F7/40

CPC: Y10T428/13 G03F7/12 G03F7/0012 G03F7/16 G03F7/2012

G03F7/2024 G03F7/2032 G03F7/38 G03F7/40

European: G03F7/00C G03F7/12 G03F7/20B2 G03F7/20B5

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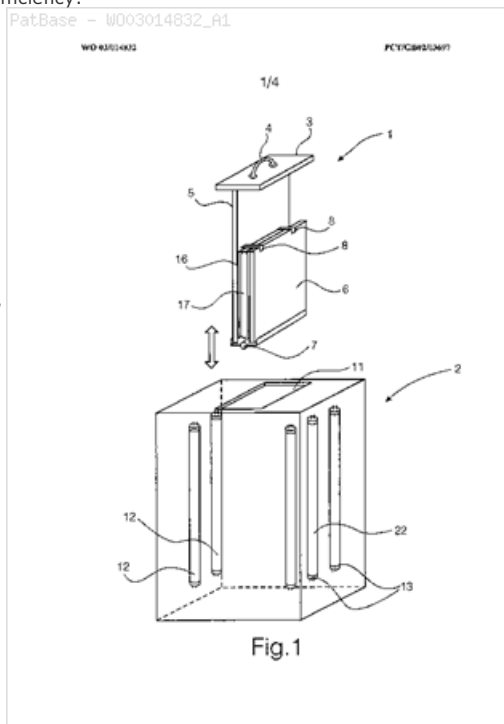
US: 101/114 101/453 101/463.1 252/299.01 428/34.1 428/341

430/138 430/18 430/258 430/259 430/270.1 430/281.1 430/283.1

430/284.1 430/286.1 430/287.1 430/288.1 430/302 430/306 430/307

430/309 430/322 430/325 430/394 430/434 430/497 53/432 53/44

53/440 53/46 53/460 53/467



Family:

Publication number	Publication date	Application number	Application date
EP1417539 A1	20040512	EP20020755145	20020809
GB200119546 A0	20011003	GB20010019546	20010810
GB2372575 A1	20020828	GB20010019546	20010810
GB2372575 B2	20030115	GB20010019546	20010810
US2003039915 AA	20030227	US20010985034	20011101
US2004219458 AA	20041104	US20040776897	20040210
US6737219 BB	20040518	US20010985034	20011101
WO03014832 A1	20030220	WO2002GB03697	20020809

Priority:

GB20010019546 20010810 US20010985034 20011101 WO2002GB03697 20020809
US20040776897 20040210

Probable Assignee: HOLT PAUL MAYO

Assignee(s): (std): CHEMENCE LTD ; DINCHEVA MARIA PENEVA ; HOLT PAUL MAYO

Assignee(s): PAUL MAYO HOLT ; CHEMENCE INC ; CHEMENCE LIMITED

Inventor(s): (std): DINCHEVA MARIA ; DINCHEVA MARIA PENEVA ; HOLT PAUL MAYO

Inventor(s): MARIA DINCHEVA ; PAUL MAYO HOLT

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: INKJET **PRINTABLE** FLEXOGRAPHY SUBSTRATE AND METHOD OF USING

Abstract: Source: US2012082932A A flexography substrate for making I-plates with liquid photopolymers has, in addition to the tie-coat applied to one side to hold the photopolymers in place on the substrate, a micro-porous coating applied to the other side, enabling a masking image to be applied to it using an inkjet printer. In this way, one single sheet of film performs the dual role of substrate and I-plate masking film. By eliminating a sheet of film, the invention provides cost, quality, and environmental benefits.

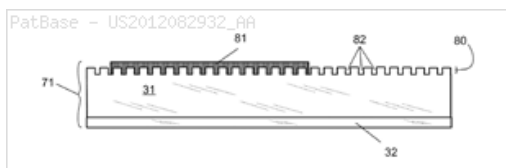
Classifications:

International (IPC 8-9): B41C1/10 B41M5/50 B41N1/12 G03F1/00 G03F1/50 G03F1/60 G03F1/68 G03F1/92 G03F7/00 G03F7/004 G03F7/11 G03F7/20 G03F7/26 (Advanced/Invention); G03F (Subclass/Invention)

CPC: Y10T428/1476 G03F7/11 B41M2205/14 B41N1/12 G03F7/092 G03F1/50 G03F7/20 G03F7/2018 G03F7/2032 B41M5/00 C09D11/36 C09D11/50

European: G03F1/68 G03F7/20A6D2 G03F7/20B5

US: 1/1 427/258 427/261 427/510 428/32.1 428/32.22 428/41.8 430/270.1 430/270.100P 430/306 430/306S 430/5



Family:

Publication number	Publication date	Application number	Application date
CN104460228 A	20150325	CN201410425829	20140826
CN104460238 A	20150325	CN201410423175	20140826
EP2437120 A2	20120404	EP20110005783	20110712
EP2437120 A3	20150304	EP20110005783	20110712
EP2848998 A1	20150318	EP20130005977	20131220
EP2905656 A1	20150812	EP20140001305	20140410
ES2613247 T3	20170523	ES20140001517T	20140429
HK1208737 A1	20160311	HK20150109318	20150923
HK1208738 A1	20160311	HK20150109319	20150923
US2012082932 AA	20120405	US20100895561	20100930
US2013251920 AA	20130926	US20120618507	20120914
US2014080042 AA	20140320	US20130027760	20130916
US2014162192 AA	20140612	US20140176110	20140209
US2016187779 AA	20160630	US20160064658	20160309
US9023591 BB	20150505	US20100895561	20100930
US9174480 BB	20151103	US20120618507	20120914
US9310687 BB	20160412	US20140176110	20140209

Priority:

US20100895561 20100930 US20120618507 20120914 US20130027760 20130916
 US20140176110 20140209 US20130902301 20130524 US20130816366P 20130426
 US20160064658 20160309

Probable Assignee: CHEMENCE INC

Assignee(s): (std): BATTISTI PETER D ; CHEMENCE INC ; CHEMENCE MEDICAL INC ; MANEIRA JOAO P ; MANEIRA JOHN P ; RACH JOSEPH F

Inventor(s): (std): CHOBADZHIEV KRASIMIR G ; MANEIRA JOAO P ; RACH JOSEPH F ; MANEIRA JOHN P ; BATTISTI PETER D ; JP JOHN P MANEIRA ; JOHN P MANEIRA

Inventor(s): JOHN P MANEIRA JP ; JOHN P MANEIRA

Agent(s): MORGAN DAVID JAMES; DE ELZABURU ALBERTO; JONATHAN R; JONATHAN RIGDON SMITH JD PC

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: PHOTSENSITIVE ELASTOMER POLYMER COMPOSITIONS FOR FLEXOGRAPHIC **PRINTING PLATES**

Abstract: Source: US5290662A Flexographic photosensitive **printing plates** are made with formulations comprising triblock polymers of poly(vinylpyridine)-poly(butadiene) or poly(isoprene)-poly(vinylpyridine). The polymers may be quaternized or neutralized with an organic acid. When made with quaternized polymers, the **plates** after imaging with UV may be developed in aqueous solutions. The acid neutralized polymers offer further advantages as to ease of synthesis, safety and improved resolution.

Classifications:

International (IPC 8-9): C08F285/00 C08F287/00 C08F297/00 C08F297/02 C08F297/08 C08F8/44 G03F7/038

H05K3/38 (Advanced/Invention);

C08F285/00 C08F287/00 H05K3/38 (Advanced/Non-invention)

International (IPC 1-7): B05D3/06 C08F2/50 C08F287/00 C08F297/00 C08F297/06 C08F297/08 C08F8/02 C08F8/44 C08L39/00 C08L53/00 G03C1/52 G03C1/68 G03C1/72 G03C1/73 G03F7/032 G03F7/038 G03F7/039 G03F7/11 G03F7/38 H05K3/38

CPC: Y10S430/108 C08F297/02 C08F8/44

European: C08F297/02 C08F8/44

US: 430/281 430/281.1 430/286 430/286.1 430/288 430/288.1

430/300 430/306 430/325 430/907 522/114

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Family:

Publication number	Publication date	Application number	Application date
AT158596 E	19971015	AT19920306409T	19920714
AU199219403 A1	19930121	AU19920019403	19920702
AU650764 B2	19940630	AU19920019403	19920702
BRPI9202656 A	19930316	BR1992PI02656	19920713
CA2073156 AA	19930116	CA19922073156	19920706
DE69222375 D1	19971030	DE19926022375	19920714
DE69222375 T2	19980115	DE19926022375T	19920714
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EP0523945 B1	19970924	EP19920306409	19920714
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JP5214043 A2	19930824	JP19920209463	19920715
MX9204097 A1	19930201	MX19920004097	19920713
NZ243419 A	19930927	NZ19920243419	19920702
US5223375 A	19930629	US19910729976	19910715
US5290662 A	19940301	US19920868062	19920413
US5344743 A	19940906	US19930024565	19930301
US5550005 A	19960827	US19920941508	19920908
ZA9205046 A	19930428	ZA19920005046	19920707

Priority:

CA19922073156 19920706 US19910729976 19910715 US19930024565 19930301
US19920941508 19920908 US19920868062 19920413

Probable Assignee: PT SUB INC

Assignee(s): (std): BERRIER ARTHUR L ; GRACE W R AND CO ; KANGA RUSTOM S ; PT SUB INC

Assignee(s): W R GRACE AND CO ; W R GRACE AND CO CONN ; PT SUB INC WILMINGTON DEL US ; MACDERMID PRINTING SOLUTIONS LLC AS SUCCESSOR IN INTEREST TO PT SUB INC ; WR GRACE AND CO CONN ; BANQUE PARIBAS AGENT AS ; BANQUE PARIBAS AGENT EQUITABLE TOWER AS ; BANQUE PARIBAS AS AGENT ; BARCLAYS BANK PLC SUCCESSOR COLLATERAL AGENT AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH AS COLLATERAL ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AGE ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AGENT AS ; MACDERMID PRINTING SOLUTIONS LLC ; BERRIER ARTHUR LEROY ; KANGA RUSTOM SAM ; CREDIT SUISSE CAYMAN ISLANDS BRANCH FIRST LIEN COLLATERAL AGENT AG AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH SECOND LIEN COLLATERAL AGENT AG AS

Inventor(s): (std): AASAA ERU BERIYAA ; ARTHUR L BERRIER ; BERRIER ARTHUR L ; BERRIER ARTHUR LEROY ; KANGA RUSTOM S ; KANGA RUSTOM SAM ; RUSTOM SAM KANGA ; RUSUTOMU SAMU KANGA

Inventor(s): RUSTOM SAM KANGA ELLICOTT CITY MARYLAND 21043 US

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOWLING LAFLEUR HENDERSON LLP

Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL PT SE

Title: ELECTROSTATIC **PRINTING** OF FUNCTIONAL TONER MATERIALS FOR ELECTRONIC MANUFACTURING APPLICATIONS

Abstract: Source: US2003210318A The invention describes techniques for the electrostatic **printing** of functional materials configured as liquid toners (50) on glass substrates (26) in a non-contact mode. The toners are patterned by a sensitized electrostatic **printing** plate (11) of fixed image configuration. Toner images (50) are transferred by an electric field (33) across a fluid filled mechanical gap (42) to the glass substrate (26). Techniques for optimizing the imaging and transfer **processes** are also disclosed. Two other techniques in which partially finished pieces are manipulated to "self-**print**" themselves, are described. In both cases defects in the pieces will over **print** the defect in the "self-healing" mode.

Classifications:

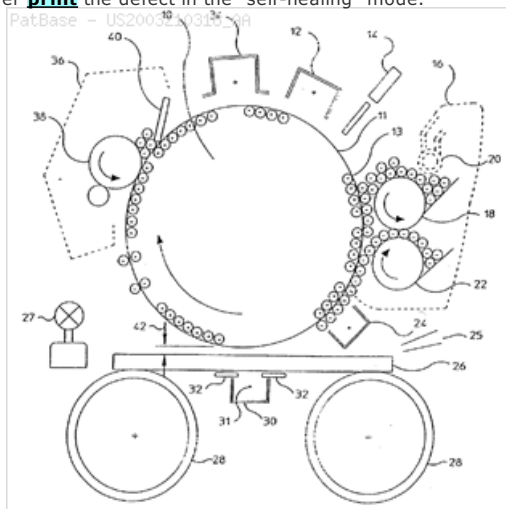
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International (IPC 1-7): B05D5/06 B41J2/41 B41J2/42 G02B5/20 G03G15/02 G03G15/06 G03G15/10 G03G15/16 G03G15/22 G03G21/08 G03G5/02 G03G5/08 G03G9/12

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European: B41J2/447C G03G15/10 G03G15/16B G03G9/135 G03G9/135B H01J9/02 S03G215/06A2 T01J217/492B

US: 347/112 347/112P 399/237 399/296 430/114 430/114P 430/117 430/117.31 430/137.11 430/137.12 430/137.22 430/137.220S



Family:

Publication number	Publication date	Application number	Application date
AT408516 E	20081015	AT19990951900T	19991012
AU199964243 A1	20000501	AU19990064243	19991012
AU199964243 A5	20000501	AU19990064243	19991012
DE69939596 D1	20081030	DE19996039596	19991012
EP1124648 A1	20010822	EP19990951900	19991012
EP1124648 A4	20041215	EP19990951900	19991012
EP1124648 B1	20080917	EP19990951900	19991012
JP2002527783 T2	20020827	JP20000575643T	19991012
JP4469086 B2	20100526	JP20000575643T	19991012
KR100379099 B1	20030408	KR20017003911	20010327
US2003210318 AA	20031113	US20030453111	20030603
US2005100810 AA	20050512	US20040019742	20041222
US6781612 BA	20040824	US20010786030	20010228
US6876370 BB	20050405	US20030453111	20030603
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WO0021690 A1	20000420	WO1999US23612	19991012

Priority:

US19980104079P 19981013 US19990786030 19991012 US20010786030 20010228
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Probable Assignee: ELECTROX CORP

Assignee(s): (std): DETIG ROBERT H ; ELECTROX CORP

Inventor(s): (std): DETIG ROBERT ; DETIG ROBERT H ; ROBERT H DETIG

Agent(s): LENZING ANDREAS; SYNNESTVEDT LECHNER AND WOODBRIDGE LLP; FOX ROTHSCHILD LLP

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZW

Title: REPLICATION TOOLS AND RELATED FABRICATION METHODS AND APPARATUS

Abstract: Source: US2006194448A Durable seamless replication tools are disclosed for replication of seamless relief patterns in desired media, for example in optical recording or data storage media. Methods of making such durable replication tools are disclosed, including preparing a recording substrate on the inner surface of a support cylinder, recording and developing a relief pattern in the substrate, creating a durable **negative** relief replica of the pattern, extracting the resulting durable tool sleeve from a **processing** cell, and mounting the tool sleeve on a mounting fixture. Apparatus are disclosed for fabricating such seamless replication tools, including systems for recording a desired relief pattern on a photosensitive layer on an inner surface of a support cylinder. Also disclosed are electrodeposition cells for forming a durable tool sleeve having a desired relief pattern. The replication tool relief features may have critical dimensions down to the micron and nanometer regime.

Classifications:

International (IPC 8-9): G11B7/26 A01J21/00 B01J19/08 B05D1/28 B05D1/32 B05D1/40 B05D3/02 B05D3/06 B05D3/14 B05D5/12 B23Q35/00 B28B21/42 B28B3/12 B29B13/00 B29C33/00 B29C33/30 B29C33/38 B29C33/58 B29C35/08 B29C43/00 B29C51/22 B29C59/00 B29C59/02 B29C59/04 B29C65/14 B29C71/00 B29D11/00 B29D23/00 B32B37/00 B44C1/165 B44C1/17 B44C1/22 B65C9/18 B82Y10/00 B82Y40/00 C23C16/44 C23C18/16 C25B15/00 C25B9/00 C25D1/00 C25D1/02 C25D1/10 C25D17/02 C25D17/04 C25D17/06 C25D17/12 C25D21/02 C25D21/06 C25D21/10 C25D3/04 C25D3/12 C25D3/46 C25D3/48 C25D5/02 C25D7/00 C25D7/04 D06N7/00 G03C5/00 G03F7/00 G03F7/20 G03G5/02 G06F12/00 G06F3/06 G11B3/70 G11B7/00 G11B7/003 G11B7/007 G11B7/24 H01B13/00 H01J37/32 H01L21/027 H01L21/18 H01L21/302 H01L21/31 H01L27/12 H01L51/00 H01Q1/36 H01Q15/02 H05K1/03 H05K1/09 H05K3/00 H05K3/06 H05K3/10 H05K3/14 (Advanced/Invention); B05D1/28 B05D1/32 B05D1/40 B29C33/42 B29C35/08 B29L11/00 H01L51/00 H05K1/03 H05K3/06 H05K3/10 H05K3/14 (Advanced/Non-invention); B01J19/08 B05D5/12 B23Q35/00 B29B13/00 B29C43/00 B29C65/14 B29D11/00 B44C1/165 B44C1/17 B44C1/22 B65C9/08 D06N7/00 G03C5/00 G03F7/00 G03F7/20 G03F7/24 G06F12/00 G06F3/06 H01L21/02 H01Q15/00 (Core/Invention); G11B7/26 (Core/Non-invention)

International (IPC 1-7): B29C51/22 G11B7/26

CPC: B29C35/0888 B29C37/0053 B29C41/045 B29C41/08 B29C41/14 G03G13/32 G03H1/028 G11B7/265 B29C59/005 B29C59/04 B29C71/0009 B29L2017/00 B29L2017/008 G11B7/003 G11B7/24009 G11B7/24082 B05D1/322 B05D3/0263 B05D3/067 B05D3/068 B05D3/141 B29C59/046 B29C2035/0827 C23C18/1603 H05K3/048 B05D1/286 B05D3/107 B05D3/145 B05D5/06 H01Q15/0013 H01L27/1292 Y10T156/1023 Y10T156/1039 Y10T156/108 B29C33/30 B29C33/3878 B29C33/424 B05D1/28 B05D1/32 B05D1/40 B05D2252/02 C23C18/1605 C25D1/003 C25D5/022 H05K2203/0113 H05K2203/0143 H05K2203/0264 H05K2203/1545 C25D7/00 H01Q1/364 C23C18/165 H05K2203/0108 B29C59/022 B29C33/58 B29C33/38 B29C2059/023 C25D1/02 C25D1/10 C25D17/02 C25D17/04 C25D21/02 C25D21/06 C25D21/10 B29C33/3857 C25D5/02 C25D7/04 C25D17/12 G03F7/24 G11B7/26 G11B7/261 H01J37/32009 H05K1/09 G03F7/20 H01L51/5206 H01J2237/334 H01L51/0023 H01L51/5234 H01L2251/301 H01L2251/308 H01L2251/5338 H05K1/0393 H05K3/0079 H05K3/061 H05K3/108 H05K3/143 H05K2201/0326 C25D3/12 C25D3/46 C25D3/48 C25D3/04 C25D17/06 B29L2031/757 G11B7/263 A01J21/00 B82Y10/00 B82Y40/00 G02F1/167 G02F2001/1672 G03F7/0002

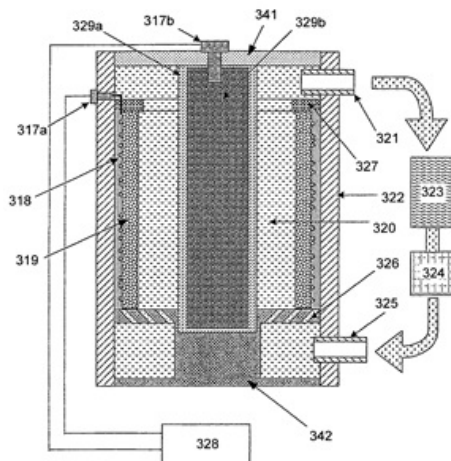
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US: 1/1 156/209 156/219 156/230 156/231 156/231S 156/238 156/238S 156/241 156/241S 156/242 156/267 156/290 204/237 204/238 204/238S 204/240 204/240S 204/241 204/241S 204/272 204/275.1 204/275.100S 205/122 205/131 205/67 205/69 216/13 216/67 216/67S 264/162 264/2.1 264/2.100P 264/220 264/293 264/310 264/40.1 264/40.5 264/400 264/405 264/485 360/72.1 360/72.100 360/72.100P 369/275.4 369/283 425/112 425/112S 425/115 425/115P 425/142 425/174.4 425/175 425/175S 425/363 425/363P 425/364R 425/365 425/373 425/385 425/408 425/471 425/471P 427/124 427/124P 427/248.1 427/248.100S 427/457 427/457S 427/58 430/321 430/321S 430/323 430/323P 430/326 430/326S 438/780 438/780P 711/101 711/101P G9B/007.003 G9B/007.035 G9B/007.163 G9B/007.194 G9B/7.003 G9B/7.003S G9B/7.035 G9B/7.035S G9B/7.163 G9B/7.163S G9B/7.194 G9B/7.194S G9B/7.195 G9B/7.195S G9B/7.196 G9B/7.196S

Family:

Publication number	Publication date	Application number	Application date
CA2553811 AA	20060720	CA20052553811	20050121
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CA2553837 C	20121016	CA20052553837	20050121
CA2595713 AA	20070723	CA20062595713	20060120
CA2643510 AA	20080825	CA20072643510	20070227
CA2643510 C	20140429	CA20072643510	20070227
CA2661767 AA	20090224	CA20072661767	20070824
DE602006042691 D1	20140925	DE200660042691T	20060620
EP1711329 A1	20061018	EP20050711734	20050121
EP1711329 A4	20081022	EP20050711734	20050121
EP1714274 A2	20061025	EP20050711738	20050121
EP1714274 A4	20081105	EP20050711738	20050121
EP1849181 A2	20071031	EP20060719038	20060120
EP1849181 A4	20090318	EP20060719038	20060120
EP1905065 A2	20080402	EP20060773532	20060620
EP1905065 A4	20110511	EP20060773532	20060620
EP1905065 B1	20140813	EP20060773532	20060620
JP2007519163 T2	20070712	JP20060551283T	20050121
JP2007524180 T2	20070823	JP20060551278T	20050121
TW200537482 A	20051116	TW20050101930	20050121

PatBase - US2006194448_A1_300



TW200537483 A	20051116	TW20050101931	20050121
TW200641820 A	20061201	TW20060102431	20060123
TWI363344 B	20120501	TW20050101931	20050121
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US2016284515 AA	20160929	US20160090265	20160404
US2016329075 AA	20161110	US20160213907	20160719
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US8435373 BB	20130507	US20060471223	20060620
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WO05072242 A2	20050811	WO2005US01864	20050121
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WO05072936 A1	20050811	WO2005US01856	20050121
WO06078918 A2	20060727	WO2006US02060	20060120
WO06078918 A3	20071101	WO2006US02060	20060120
WO07001977 A2	20070104	WO2006US23804	20060620
WO07001977 A3	20070322	WO2006US23804	20060620
WO07100849 A2	20070907	WO2007US05151	20070227
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WO08014519 A2	20080131	WO2007US74766	20070730
WO08014519 A3	20080710	WO2007US74766	20070730
WO08024947 A2	20080228	WO2007US76708	20070824
WO08024947 A3	20081231	WO2007US76708	20070824
WO09064888 A1	20090522	WO2008US83407	20081113
WO09094572 A1	20090730	WO2009US31876	20090123

Priority:

EP20060773532	20060620	US20040537847P	20040121	US20040538120P	20040121
US20050588098	20050121	US20050692078P	20050620	US20050645714P	20050121
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US20080022882P	20080123	US20070987626P	20071113	US20070830178	20070730
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US20160213907	20160719				

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Assignee(s): (std): FREY TIMOTHY ; FREY TIMOTHY J ; KIME MILFORD ; MICROCONTINUUM INC ; MICROCONTINUUM INC ; MICROCONTINUUM INC ; SLAFER W DENNIS ; WHITE MATTHEW B ; SLAFER W D ; WHITE MATTHEW ; SLAFER DENNIS W

Assignee(s): MICROCONTINUUM INC CAMBRIDGE ; SLAFER W

Inventor(s): (std): FREY TIMOTHY ; FREY TIMOTHY J ; KIME MILFORD ; SLAFER DENNI W ; SLAFER DENNIS W ; SLAFER W D ; SLAFER W DENNIS ; WHITE MATTHEW ; WHITE MATTHEW B

Inventor(s): SLAFER W DENNIS ARLINGTON ; SLAFER W

Agent(s): RICHES MCKENZIE AND HERBERT LLP; G RONALD BELL AND ASSOCIATES; MUELLER BORE AND PARTNER PATENTANWALTE PARTG MBB; HILL JUSTIN JOHN ET AL; AKIMOTO YOSHIO; ONO SHINJIRO; SHAMOTO ICHIO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; CHIBA AKIO; MCDERMOTT WILL AND EMERY LLP, ATTN: INTELLECTUAL PROPERTY DEPARTMENT; MCDERMOTT WILL AND EMERY LLP ATTN INTELLECTUAL PROPERTY DEPARTMENT; MCDERMOTT WILL AND EMERY LLP; KUSMER TOBY H ET AL; KUSMER TOBY H

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: Photopolymerizable composition

Abstract: Source: US4198238A Photopolymerizable compositions containing a mixture of a liquid unsaturated polyester and a liquid urethane-linked polymer can be used to prepare **printing plates** having improved solvent resistance and washout characteristics.

Classifications:

International (ipc 8-9): G03C5/00 G03F7/00 G03F7/027

G03F7/095 (Advanced/Invention);

G03C5/00 G03F7/00 G03F7/027 G03F7/095 (Core/Invention)

International (ipc 1-7): B41N G03C1/68 G03C1/76 G03C5/00

G03F7/02 G03F7/027 G03F7/10

CPC: G03F7/0955 Y10S430/136

European: G03F7/095P

US: 430/15 430/18 430/271.1 430/273.1 430/281.1 430/285.1

430/286 430/286.1 430/306 430/935 522/103 522/107 522/34 522/8

522/93 522/96 522/98

PatBase - US4332873_A

U.S. Patent

Jun. 1, 1982

4,332,873



Family:

Publication number	Publication date	Application number	Application date
CA1103085 A1	19810616	CA19790327362	19790510
CA1123649 A1	19820518	CA19790325604	19790417
DE2924848 A1	19800117	DE19792924848	19790620
DE2924848 C2	19880128	DE19792924848	19790620
FR2429450 A1	19800118	FR19790016137	19790622
FR2429450 B1	19840622	FR19790016137	19790622
GB2024441 A1	19800109	GB19790021687	19790621
GB2024441 B2	19830112	GB19790021687	19790621
IT1121875 A	19860423	IT19790023775	19790621
IT7923775 A0	19790621	IT19790023775	19790621
JP1654953 C3	19920413	JP19790077622	19790621
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NL184543 B	19890316	NL19790004847	19790621
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NL7904847 A	19791228	NL19790004847	19790621
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Priority:

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Probable Assignee: MACDERMID ACUMEN INC

Assignee(s): (std): HERCULES INC ; HERCULES INC TE WILMINGTON DELAWARE VER S

Assignee(s): HERCULES INC TE WILMINGTON DELAWARE VER ST V AM ; HERCULES INC WILMINGTON DEL US ; HUGHES NORMAN E ; MACDERMID IMAGING TECHNOLOGY INC ; MACDERMID INC ; MACDERMID ACUMEN INC ; SCHEVE BERNARD J

Inventor(s): (std): HUGHES NORMAN E ; HUGHES NORMAN EDWARD ; NOOMAN EDOWAADO HIYUUZU ; NOOMAN EDOWAADO HYUUZU ; SCHEVE BERNARD J ; SCHEVE BERNARD JOSEPH ; BAANAADO JIYOSEFU SHIIBU ; BAANAADO JOSEFU SHIUI

Inventor(s): EDWARD HUGHES NORMAN ; SCHEVE BERNARD JOSEPH WILMINGTON DEL ; SCHEVE BERNARD JOSEPH WILMINGTON DEL US ; HUGHES NORMAN EDWARD LANDENBERG PA ; HUGHES NORMAN EDWARD LANDENBERG PA US ; JOSEPH SCHEVE BERNARD

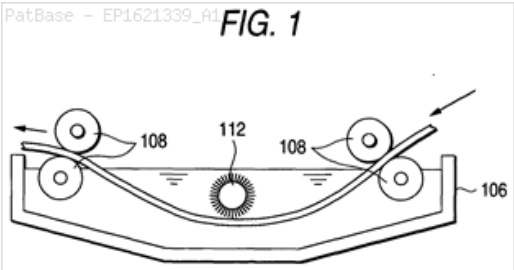
Agent(s): MOFFAT AND CO

Title: PLATE-MAKING METHOD OF LITHOGRAPHIC **PRINTING** PLATE

Abstract: Source: EP1621339A1 A plate-making method of a lithographic **printing** plate, comprises: imagewise exposing a lithographic **printing** plate precursor comprising a support and an image recording layer on or above the support, so as to cure an exposed area of the image recording layer; and developing the exposed lithographic **printing** plate precursor with an aqueous solution containing 1 mass percent or more of either one or both of a nonionic surfactant and an anionic surfactant, the aqueous solution having a pH of 2 to 10.

Classifications:

International (IPC 8-9): B41C1/10 G03F7/00 G03F7/004 G03F7/11 G03F7/32 (Advanced/Invention);
B41C1/10 G03F7/00 G03F7/004 G03F7/11 G03F7/32 (Core/Invention)
CPC: B41C2201/02 B41C2201/04 B41C2201/14 B41C2210/04 B41C2210/06 B41C2210/10 B41C2210/20 B41C2210/22 B41C1/1008 B41C1/1016 G03F7/3042 G03F7/32 G03F7/322
European: B41C1/10A B41C1/10A1 G03F7/32 G03F7/32A L41N3/08 S03F7/30E



Family:

Publication number	Publication date	Application number	Application date
AT407799 E	20080915	AT20050016620T	20050729
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JP2006065321 A2	20060309	JP20050221431	20050729
JP2011107727 A2	20110602	JP20110035228	20110221
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JP5453333 B2	20140326	JP20110035228	20110221

Priority:

JP20040221499 20040729 JP20050221431 20050729 JP20110035228 20110221

Probable Assignee: FUJIFILM CORP

Assignee(s): (std): FUJI PHOTO FILM CO LTD ; FUJIFILM CORP

Assignee(s): FUJI PHOTO FILM CO

Inventor(s): (std): ADACHI KEIICHI ; NAGASE HIROYUKI

Agent(s): HOFFMANN EITLE

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Title: STEREOFLEXOGRAPHY

Abstract: Source: US2005233252A Improvement to the **photopolymers** catalysis in **printing plates** for the flexographic and of stamp sectors (Fig. 1), by exposing the **photopolymer** plate (1), only, by the bottom face (2), to two different and simultaneous levels of radiation; a lower, to catalyze the base of the relief (8) and a maximum, to catalyze the **printing** relief (10), emitted by radiation device (5, 6), polarized by filter (7), which uses a **negative** film whose black area is replaced by halftone (3), thereby originating the low radiation level, and keeping its transparent area (4), thereby originating the maximum radiation level, thickening the base of the dot (9) and sharpening the top of the dot (10), thereby eliminating the 'dot droop' and the 'dot gain', respectively; or which uses optic semiconductors, which digitally modulate the radiation in a fixed way (Fig. 2) for the stamp sector, with DMD or LCD (1), and in a mobile way (Fig. 3), with DMD (1), for the flexographic sector.

Classifications:

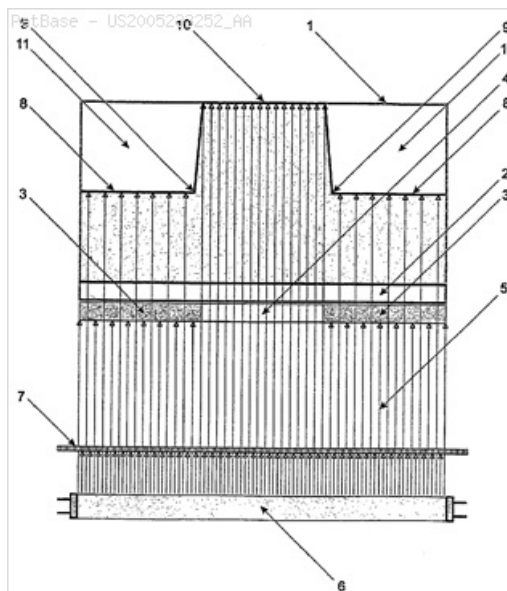
International (IPC 8-9): G03F7/00 G03F7/20 (Advanced/Invention);
G03F7/00 G03F7/20 (Core/Invention)

International (IPC 1-7): B41M5/40 B41N1/00 G02B27/09 G03C1/76
G03F7/00 G03F7/095 G03F7/20

CPC: G03F7/2022

European: G03F7/20B

US: 101/401.1 430/306

**Family:**

Publication number	Publication date	Application number	Application date
AU2003250632 AA	20040319	AU20030250632	20030822
BRPI0203428 A	20040525	BR2002PI03428	20020829
BRPI0203428 C1	20040706	BR2002PI03428	20020829
EP1543383 A1	20050622	EP20030790576	20030822
IN01196DN2005 A	20091002	IN2005DN01196	20050328
JP2005536777 T2	20051202	JP20040531313T	20030822
US2005233252 AA	20051020	US20050525628	20050225
WO04021080 A1	20040311	WO2003BR00119	20030822

Priority:

BR2002PI03428 20020829 WO2003BR00119 20030822

Probable Assignee: DAY INT INC

Assignee(s): (std): DANTAS EUDES

Assignee(s): DAY INT ; DAY INT INC ; EUDES DANTAS

Inventor(s): (std): DANTAS EUDES

Inventor(s): EUDES DANTAS

Agent(s): PEARNE AND GORDON LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: CLEANING ARTICLES TREATED WITH A HIGH INTERNAL PHASE INVERSE EMULSION

Abstract: Source: US5980922A The invention relates to articles useful in cleansing, and particularly to wet-like cleansing wipes that are especially useful for hard surface cleaning, and in personal cleansing such as baby wipes and particularly for removal of perianal soils. These articles comprise: a carrier; and an emulsion applied to the carrier. The emulsion comprises (1) from about 2 to about 60 percent of a continuous solidified lipid phase comprising a waxy lipid material having a melting point of about 30 DEG C. or higher, (2) from about 39 to about 97 percent of an internal polar (e.g., water) phase dispersed in the lipid phase; (3) an effective amount of a non-silicon containing emulsifier, where the emulsifier has a viscosity at 55 DEG C. of greater than about 500 centipoise; and (4) and an optional second emulsifier having a viscosity at 55 DEG C. of less than about 400 centipoise. Because the emulsion comprises a waxy external phase, the internal polar phase is retained in the emulsion until in-use shear pressures break the emulsion, thereby providing desired moisture for cleaning. The invention also relates to a **process** for making the cleaning articles.

Classifications:

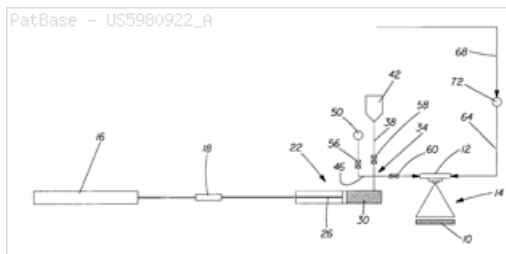
International (IPC 8-9): A01N25/34 A61F13/15 A61K7/00 A61K7/50 A61K8/00 A61K8/02 A61K8/06 A61K8/31 A61K8/36 A61K8/97 A61K8/98 A61L15/00 A61L15/42 A61Q19/10 C08J3/03 C11D1/06 C11D17/04 D21H19/18 D21H21/14 (Advanced/Invention); A61K7/50 A61K8/00 A61Q19/10 C08J3/03 (Advanced/Non-invention); A61F13/15 A61K8/00 A61K8/02 A61K8/04 A61K8/30 A61K8/96 A61L15/00 A61Q19/10 C11D1/02 (Core/Invention); D21H21/14 (Core/Non-invention)

International (IPC 1-7): A01N25/34 A47K A47L A61F13/00 A61F13/15 A61K A61K7/00 A61K7/50 A61L A61L15/00 B32B29/00 C08J3/03 C11D1/06 C11D17/04 C23G 5/06 C23G5/06 D21H19/18 D21H21/14

CPC: A61K8/0208 A61K8/06 A61Q19/10 C11D17/049

European: A61K8/02C A61K8/06 A61Q19/10 C11D17/04F

US: 424/402 424/404 424/443



Family:

Publication number	Publication date	Application number	Application date
AR006913 AA	19990929	AR1997P101778	19970430
AU199728106 A1	19971119	AU19970028106	19970425
AU725252 B2	20001012	AU19970028106	19970425
BRPI9709204 A	19990810	BR1997PI09204	19970425
CA2253357 AA	19981027	CA19972253357	19970425
CA2253357 C	20020806	CA19972253357	19970425
CL1997000777 A1	19980123	CL19970000777	19970429
CN1133419 C	20040107	CN19971095983	19970425
CN1223571 A	19990721	CN19971095983	19970425
CO4930343 A1	20000627	CO19970022509	19970428
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CZ9803476 A3	19990317	CZ19980003476	19970425
EG21962 A	20020430	EG19970000351	19970429
EP0910337 A1	19990428	EP19970922444	19970425
HU9902467 AB	19991129	HU19990002467	19970425
HU9902467 AC	20000728	HU19990002467	19970425
ID19080 A	19980611	ID19970001436	19970430
IL126789 A0	19990817	IL19970126789	19970425
IL126789 A1	20030312	IL19970126789	19970425
IN01053DE1997 A	20160831	IN1997DE01053	19970424
JP11508610 T2	19990727	JP19970539029T	19970425
JP3353901 B2	20021209	JP19970539029T	19970425
KR100301651 B1	20020917	KR19980708761	19981030
KR20000065153 A	20001106	KR19980708761	19981030
MY116404 A	20040131	MY19970001855	19970429
NO985021 A	19981230	NO19980005021	19981028
NO985021 A0	19981028	NO19980005021	19981028
PE82398 A1	19981214	PE19970000329	19970430
TH27957 A	19980216	TH19971001617	19970428
TR9802167 T2	20010621	TR19980002167T	19970425
TW368536 B	19990901	TW19970105574	19970428
US5980922 A	19991109	US19960759547	19961205
VN2876 A1	20020826	VN19980000920	19981031
WO9740814 A1	19971106	WO1997US06905	19970425
ZA9703576 A	19980130	ZA19970003576	19970424

Priority:

US19960640268 19960430 US19960759547 19961205 WO1997US06905 19970425

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE ; PROCTER AND GAMBLE CO CINCINNA

Assignee(s): THE PROCTER AND GAMBLE COMPANYUS ; THE PROCTER AND GAMBLE CO CINCINNATI OHIO ; TROKHAN PAUL DENNIS ; PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY ; PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE CO THE ; HIRD BRYN ; MACKEY LARRY NEIL

Inventor(s): (std): BRYN HIRD ; DENNIS TROKHAN PAUL ; HIRD BRYN ; HIRD BRYN NMN ; MACKEY LARRY N ; MACKEY LARRY NEIL ; MACKEY LARRY NIEL ; NEIL MACKEY LARRY ; NMN HIRD BRYN ; TROKHAN PAUL D ; TROKHAN PAUL DENNIS

Inventor(s): Bryn ; PAUL D TROKHAN ; Paul Dennis ; PAUL DENNIS TROKHAN ; Trokhan ; MACKEY LARRY NELL ; LARRY N MACKEY ; Larry Neil ; LARRY NEIL MACKEY ; Mackey ; Hird ; BRYN NMN HIRD

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; SIM AND MCBURNEY; HARNECKER; CARLOS REINALDO OLARTE GARCIA; REINHOLD COHN AND

PARTNERS

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CH CN CU CZ DE DK EE ES FI FR GB GE GH GR HU IE IL
IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD
SE SG SI SK SZ TJ TM TR TT UA UG UZ VN YU

Title: PHOTOPOLYMERIZATION OF EPOXY MONOMERS

Abstract: Source: US3708296A ABSTRACT OF THE DISCLOSURE B
Classifications:

International (IPC 8-9): B01J19/12 C07F9/54 C08F2/46 C08F2/50 C08G59/00 C08G59/14 C08G59/18 C08G59/40 C08G59/44 C08G59/62 C08G59/68 C08G63/00 C08G63/82 C08G65/10 C08G65/12 C08G65/18 C08G65/22 C08G65/26 C08K5/315 C08L63/00 C08L67/00 G03C5/60 G03F7/016 G03F7/027 G03F7/029 G03F7/038 G03F7/12 H05K3/00 (Advanced/Invention); B01J19/12 C07F9/00 C08F2/46 C08G59/00 C08G63/00 C08G65/00 C08K5/00 C08L63/00 C08L67/00 G03C5/60 G03F7/016 G03F7/027 G03F7/029 G03F7/038 G03F7/12 H05K3/00 (Core/Invention)

International (IPC 1-7): B01J1/00 B01J1/10 B01J1/12 B01J19/12 B32B27/00 C08D1/00 C08F1/00 C08F2/46 C08F2/50 C08G1/00 C08G17/017 C08G23/02 C08G23/14 C08G30/00 C08G30/10 C08G30/14 C08G53/00 C08G59/02 C08G59/16 C08G59/18 C08G59/32 C08G59/40 C08G59/44 C08G59/68 C08G63/10 C08G65/10 C08G65/12 C08G65/22 C08J5/24 C08L23/02 C08L63/00 C09D3/48 C09D3/58 G03C1/00 G03C1/54 G03C1/68 G03C1/70 G03F7/08 G03F7/10

CPC: C08G65/18 C08G59/68 G03F7/027 C07F9/54 C08G59/625 C08G63/823 C08G65/22 B01J19/12 C08G59/688 C08G65/2615 Y10S430/115 Y10S430/127 Y10S522/901 C08G59/44 C08G59/18 C08G59/14 C08K5/315 C08G65/223 G03F7/029 C08G59/686 C08G65/105 C08G65/12 G03C5/60 G03F7/016 G03F7/12 Y10T428/24802 Y10T428/31511 Y10T428/31993

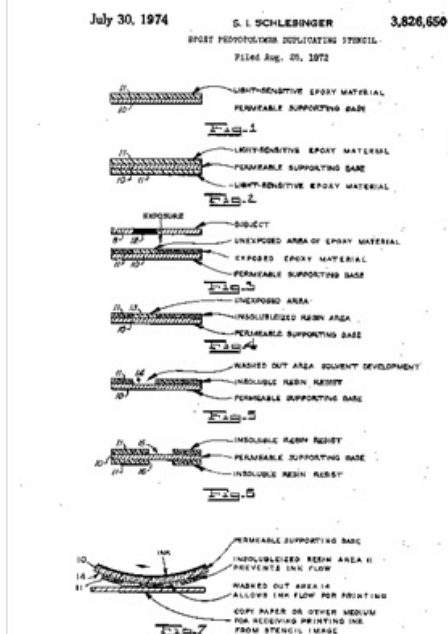
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US: 204/15.9.11 204/159.18 428/195.1 428/413 428/537.5 428/704 430/141 430/152 430/156 430/157 430/163 430/175 430/176 430/177 430/179 430/183 430/185 430/187 430/280.1 430/302 430/308 430/322 430/325 430/8 430/914 430/926 522/15 522/150 522/166 522/168 522/170 522/25 522/28 522/32 522/65 522/75 522/901 524/717 524/718 524/725 525/117 525/340 525/341 525/385 525/507 525/523 525/524 525/529 525/533 526/147 526/192 526/193 526/195 526/266 526/273 528/105 528/107 528/112 528/116 528/219 528/355 528/356 528/357 528/361 528/393 528/405 528/406 528/408 528/409 528/412 528/417 528/86 528/89 528/91 528/94 534/558 534/560 534/562 549/266 549/273 549/295 549/328 549/560 96/3.3 96/3.5.1 96/33 96/35.1

Family:

Publication number	Publication date	Application number	Application date
AU197360392 A1	19750320	AU19730060392	19730918
BE755013 A2	19710219		19700819
CA1004521 A1	19770201	CA19730179610	19730824
CA1034297 A1	19780704	CA19730181218	19730917
CA938248 A1	19731211	CA19690055454	19690626
CA989094 A1	19760511	CA19730181253	19730917
CA989095 A1	19760511	CA19730181219	19730917
CA989096 A1	19760511	CA19730166251	19730316
CA991341 A1	19760615	CA19730166412	19730319
CH555383 A	19741031	CH19700010685	19700714
CH587301 A	19770429	CH19730003970	19730319
CH587302 A	19770429	CH19730003971	19730319
DE2035890 A1	19720127	DE19702035890	19700720
DE2035890 B2	19730510	DE19702035890	19700720
DE2035890 C3	19731220	DE19702035890	19700720
DE2313627 A1	19740620	DE19732313627	19730319
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DE2313628 A1	19740620	DE19732313628	19730319
DE2313628 C2	19820909	DE19732313628	19730319
DE2348184 A1	19740404	DE19732348184	19730925
DE2366374 C2	19820916	DE19732366374	19730319
DE2366387 C2	19860911	DE19732366387	19730319
FR2098757 A5	19720310	FR19700027594	19700727
FR2200316 A1	19740419	FR19730034537	19730926
FR2200316 B3	19760820	FR19730034537	19730926
FR2210638 A1	19740712	FR19730009710	19730319
FR2210638 B1	19770211	FR19730009710	19730319
FR2210639 A1	19740712	FR19730009712	19730319
FR2210639 B1	19770805	FR19730009712	19730319
GB1321263 A	19730627	GB19700032272	19700702
JP1098871 C3	19820527	JP19730108086	19730927
JP49086495 A2	19740819	JP19730108086	19730927
JP56042616 B4	19811006	JP19730108086	19730927
NL164580 B	19800815	NL19700010997	19700724
NL164580 C	19810115	NL19700010997	19700724
NL7010997 A	19720126	NL19700010997	19700724
US3708296 A	19730102	US19680753869	19680820
US3721616 A	19730320	US19710144667	19710518

PatBase - US3826650_A



US3721617 A	19730320	US19710144642	19710518
US3816278 A	19740611	US19720314613	19721213
US3816279 A	19740611	US19720298937	19721019
US3816280 A	19740611	US19720314614	19721213
US3826650 A	19740730	US19720283629	19720825
US3835003 A	19740910	US19720298848	19721019
US4080274 A	19780321	US19750585573	19750610

Priority:

BE19700755013 19700819	CA19720055454 19720110	CH19700010685 19700714
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US19720292759 19720927	US19720314613 19721213	

Probable Assignee: AMERICAN CAN CO

Assignee(s): (std): AMERICAN CAN CO ; AMERICAN CAN CY AMERICAN LANE GREENWICH CONNECTICU ; AMERICAN CAN COMPANY NEW YORK

Assignee(s): AMERICAN CAN CY US ; AMERICAN CAN CY ; AMERICAN CAN CY AMERICAN LANE GREENWICH CONNECTICUT 06830 V S A ; SCHLESINGER SHELDON I ; WATT WILLIAM R ; SHELDON I SCHLESINGER ; AMERICAN CAN CY AMERICAN LANE GREENWICH CONNECTICUT 06830 VSA ; AMERICAN CAN CO 06830 GREENWICH CONN US ; AMERICAN CAN CO GREENWICH CONN US ; AMERICAN CAN CO GREENWICH CONN V ST A ; AMERICAN CAN CO NEW YORK ; AMERICAN CAN CO NEW YORK N Y V ST A ; AMERICAN CAN CO US ; AMERICAN CAN COMPANY

Inventor(s): (std): SCHLESINGER S ; SCHLESINGER SHELDON I ; SCHLESINGER SHELDON IRWIN ; WATT WILLIAM RUSSELL ; SHELDON IRWIN SCHLESINGER ; WATT WILLIAM R ; WATT WILLIAM RUSSEL ; WATT W ; RUSSELL W

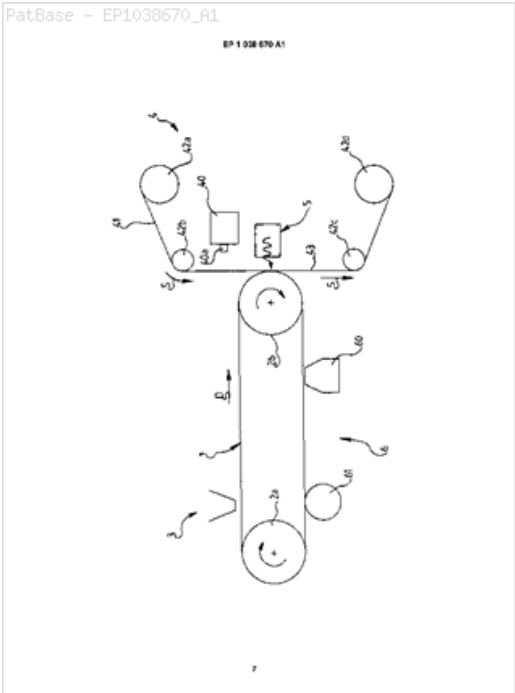
Inventor(s): SHELDON I SCHLESINGER ; WATT WILLIAM RUSSEL PRICETON JUNCTION N J US ; WATT W US ; WATT WILLIAM RUSSELL PRINCETON INUCTION N J ; WATT WILLIAM RUSSELL PRINCETON INUCTION N J US ; WATT WILLIAM RUSSELL PRINCETON INUCTION N J V ST ; WATT WILLIAM RUSSELL PRINCETON INUCTION N J V ST A ; WATT WILLIAM RUSSELL PRINCETON JUNCTION N J US ; WATT WILLIAM RUSSELL PRINCETON JUNCTION N J ; WATT WILLIAM RUSSEL PRICETON JUNCTION N J ; SCHLESINGER SHELDON IRWIN HIGHTSTOWN N J V ST A ; SCHLESINGER SHELDON IRWIN HIGHTSTOWN NJ VSTA ; SCHLESINGER S US ; IRWIN SCHLESINGER SHELDON ; RUSSELL W US

Title: **Process** for making a **photopolymer** relief **printing** belt

Abstract: Production involves providing relatively rigid endless support, applying layer of **photopolymer** onto support surface, making mask corresponding to **printing plates** assembly, positioning prepared mask on support, exposing the support surface, covered with **photopolymer**, to the light, especially UV light, and eliminating non-crosslinked polymer from the surface of support. Production of **photopolymer**-based **printing** band such as typographic or flexographic **printing** band including **printing plates** in defined assembly comprises following stages: providing relatively rigid endless support, applying layer of **photopolymer** onto support surface, making mask corresponding to **printing plates** assembly, positioning prepared mask on support, exposing the support surface, covered with **photopolymer**, to the light, especially UV light, and eliminating non-crosslinked polymer from the surface of support. Independent claims are also included for: (1) Relief **printing** band obtained using **process** as claimed, on support made of polyester or polycarbonate, with expansion 1-20 m, width up to 2 m and thickness 0.75-3 mm; and (2) equipment for conducting **process** as claimed, comprising means for preparation of mask, means for positioning mask on endless support with **photopolymer** layer, means for conducting light (UV) exposure, and optional means for generation of air wave and absorption system for elimination of non-crosslinked polymer from support surface.

Classifications:

International (IPC 8-9): B41C1/18 B41F17/00 G03F7/24 (Advanced/Invention); B41C1/00 B41F17/00 G03F7/24 (Core/Invention)
International (IPC 1-7): B41C1/18 B41F17/00 B41N1/06 G03F7/16 G03F7/42
CPC: B41F17/007 B41C1/182 G03F7/24
European: B41C1/18A B41F17/00G G03F7/24



Family:

Publication number	Publication date	Application number	Application date
DE60048211 D1	20131017	DE20006048211	20000324
EP1038670 A1	20000927	EP20000400822	20000324
EP1038670 B1	20130821	EP20000400822	20000324
FR2791441 A1	20000929	FR19990003827	19990326
FR2791441 B1	20010518	FR19990003827	19990326

Priority:

EP20000400822 20000324 FR19990003827 19990326

Probable Assignee: MACDERMID PRINTING SOLUTIONS EUROPE SAS

Assignee(s): (std): MACDERMID PRINTING SOLUTIONS EUROP SAS ; ROLLIN SA

Assignee(s): MACDERMID PRINTING SOLUTIONS EUROPE SAS ; ROLLIN S A

Inventor(s): (std): BARRAL CHRISTIAN ; BERTRAND DOMINIQUE ; KORCHAK TOM

Inventor(s): TOM KORCHAK ; DOMINIQUE BERTRAND ; CHRISTIAN BARRAL

Agent(s): LORENZ SEIDLER GOSSEL RECHTSANWAELTE PATENTANWAELTE PARTNERSCHAFT MBB; THINAT MICHEL; CABINET WEINSTEIN

Designated states: BE DE FR GB IT

Title: SOLVENT-BASED INKJET-**PRINTED NEGATIVES** FOR MAKING FLEXO **PLATES**

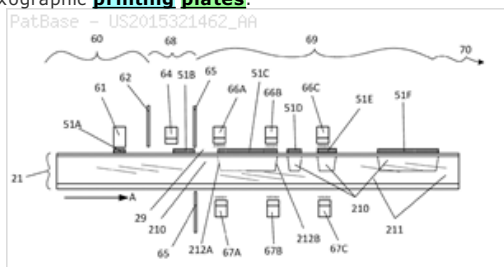
Abstract: Source: US2013255517A Solvent-based inks for inkjet **printers** are prepared by adding UV-absorbers and/or reflectors. These inks, when **printed** on uncoated or untreated polymeric films which may be either clear or dyed, produce **negatives** with sufficient opacity to make **photopolymer**-based flexographic **printing plates**.

Classifications:

International (IPC 8-9): B41C1/00 B41C1/10 B41J11/00 B41K1/02 B41M5/00 B41M7/00 C09D11/30 C09D11/322 C09D11/36 C09K11/00 G03F1/00 G03F1/92 G03F7/00 G03F7/004 G03F7/038 G03F7/20 (Advanced/Invention); B41J11/00 C09K11/00 (Core/Invention)

CPC: B41M5/00 B41M2205/14 G03F1/92 C09D11/50 C09D11/322 B41J11/002 C09K11/00 G03F7/2018 B41M3/10 G03F7/2012 G03F7/2022 G03F7/0015 G03F7/20 G03F7/2032 C09D11/36 B41K1/02 G03F7/092 G03F7/00 G03F1/60

US: 101/368 101/471 106/31.6 347/16 430/270.1 430/306 430/320



Family:

Publication number	Publication date	Application number	Application date
CN106147394 A	20161123	CN201510144396	20150330
EP2806310 A2	20141126	EP20140001517	20140429
EP2806310 A3	20150603	EP20140001517	20140429
EP2806310 B1	20170104	EP20140001517	20140429
EP2916172 A1	20150909	EP20140001317	20140410
EP3018178 A1	20160511	EP20150000562	20150227
MX2015007311 A1	20160509	MX20150007311	20150609
US2013255517 AA	20131003	US20130902301	20130524
US2014318398 AA	20141030	US20140179634	20140213
US2015097889 AA	20150409	US20140536708	20141110
US2015321462 AA	20151112	US20150792904	20150707

Priority:

US20130027760 20130916	US20130816366P 20130426	US20130902301 20130524
US20140179634 20140213	US20140536708 20141110	US20140176110 20140209
US20150792904 20150707		

Probable Assignee: CHEMENCE INC

Assignee(s): (std): CHEMENCE INC ; CHOBADZHIEV KRASIMIR G ; MANEIRA JOHN P

Inventor(s): (std): CHOBADZHIEV KRASIMIR G ; CHORBADZHIEV KRASIMIR G ; MANEIRA JOHN P

Inventor(s): JOHN P MANEIRA

Agent(s): MORGAN DAVID JAMES

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: MANUFACTURING OF RELIEF **PRINTING PLATES** MADE OF PHOTO-SENSITIVE POLYMERIC MATERIAL

Abstract: Source: US4559294A A method for manufacturing relief **printing plates** made of a photo-sensitive polymeric material, including the steps of providing a photographic **negative** having opaque areas and transparent areas defining a desired **printing** relief pattern, applying a layer of viscous photo-sensitive resin on the photographic **negative**, providing a flexible support base having a roughened surface, and applying it onto the layer of viscous resin with the roughened surface contacting the layer of resin, projecting ultra-violet radiation on the **negative** for hardening any of the resin which is exposed to the ultra-violet radiation through the transparent areas of the **negative** thereby forming the **printing** relief and causing the resin to adhere to the roughened surface during the hardening thereof, and removing the **negative** and recovering any of the resin which was behind the opaque areas of the **negative** and was not hardened.

Classifications:

International (IPC 8-9): B41C3/06 B41N1/12 G03F7/00 G03F7/115 G03F7/20 G03F7/30 (Advanced/Invention); B41C3/00 B41N1/12 G03F7/00 G03F7/09 G03F7/20 G03F7/30 (Core/Invention)

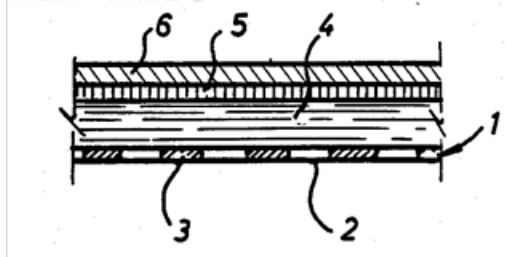
International (IPC 1-7): B41C3/06 B41N1/12 B41N3/00 G03C G03F7/02 G03F7/14 G03F7/20

CPC: B41N1/12 G03F7/115

European: B41N1/12 G03F7/115

US: 430/271 430/271.1 430/273 430/273.1 430/300 430/302 430/306

PatBase - US4559294_A



Family:

Publication number	Publication date	Application number	Application date
AT35868 E	19880815	AT19840401702T	19840822
AU198430769 A1	19850307	AU19840030769	19840717
AU560406 B2	19870402	AU19840030769	19840717
DE3472843 D1	19880825	DE19843472843	19840822
EP0142386 A1	19850522	EP19840401702	19840822
EP0142386 B1	19880720	EP19840401702	19840822
ES525778 A1	19840616	ES19830525778	19830831
ES533703 A1	19851016	ES19840533703	19840626
ES533703 A2	19851016	ES19840533703	19840626
ES533703 A3	19851016	ES19840533703	19840626
ES8405689 A1	19841001	ES19830525778	19830831
ES8600623 A2	19860116	ES19840533703	19840626
JP60086547 A2	19850516	JP19840160207	19840730
PT78992 A	19840801	PT19840078992	19840727
PT78992 B	19860609	PT19840078992	19840727
US4559294 A	19851217	US19840640157	19840810

Priority:

EP19840401702 19840822 ES19830525778 19830831 ES19840533703 19840626

Probable Assignee: INDAGRAF SA

Assignee(s): (std): INDAGRAF SA

Assignee(s): INDAGURAFU SA ; INDAGRAF S A ; INDAGRAF S A BEJAR

Inventor(s): (std): ALMORIN NAVARRETE JUAN ; NAVARRETE JUAN A ; NAVARRETE JUAN ALMORIN ; FUWAN ARUMORIN NABARETSUTE

Inventor(s): JUAN ALMORIN NAVARRETE

Designated states: AT BE CH DE FR GB IT LI LU NL SE

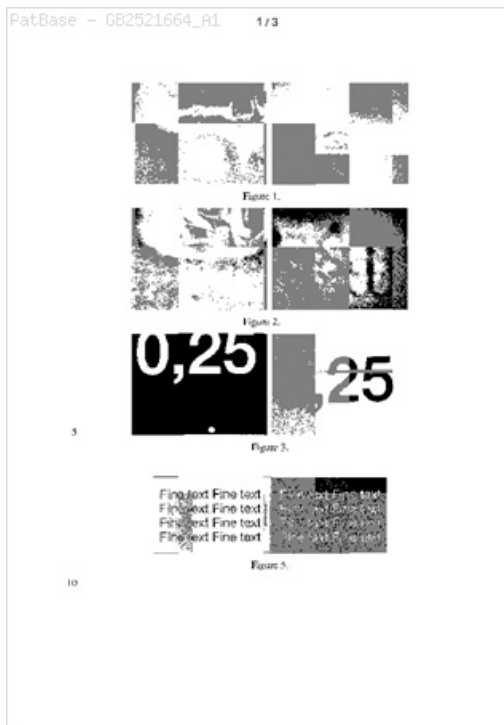
Title: METHOD OF MAKING A FLEXOGRAPHIC **PRINTING** PLATE USING COLOURED **NEGATIVES**

Abstract: Source: GB2521664A A colour tone or greyscale shading is added to some of the transparent parts of a **negative** mask used to make flexographic **plates**. This colour moderates the light transmitted through the transparent areas limiting the light exposure of masked regions of the **photopolymer** due to curing light incident at a non-perpendicular angle to the **negative** mask leaking into regions that should not be exposed. Reverses are kept open to the maximum depth possible, preventing the widening or overexposure of relief and reverse whilst allowing the maximum amount of light through the small clear areas making the fine relief. The correct amount of light for each part of the **negative** is calculated according to the predicted amount of light that will be transmitted through it, adjusting the intensity of colour accordingly. It provides a technical advantage of using a **negative** over the digital **process**, widening the amount of information available to create the **printing** plate from just black and white. It enables the plate maker to achieve an optimal **printing** plate independent of design. The incorporation of a half tone screen over the selective colour enhances total ink delivered. The screen can also level out intensity irregularities in intensities in the exposure units.

Classifications:

International (IPC 8-9): G03F1/00 G03F7/20 (Advanced/Invention)

CPC: G03F7/201 G03F7/2002 G03F1/144



Family:

Publication number	Publication date	Application number	Application date
GB201323087 A0	20140212	GB20130023087	20131229
GB2521664 A1	20150701	GB20130023087	20131229
GB2521664 B2	20151209	GB20130023087	20131229

Priority:

GB20130023087 20131229

Probable Assignee: HOLT PAUL M

Assignee(s): (std): HOLT PAUL M ; HOLT PAUL MAYO ; PHOTOCENTRIC LTD

Assignee(s): PAUL MAYO HOLT

Inventor(s): (std): HOLT PAUL MAYO

Inventor(s): PAUL MAYO HOLT

Title: PHOTOCURABLE POLYURETHANE-ACRYLATE IONOMER COMPOSITIONS FOR AQUEOUS DEVELOPABLE **PRINTING PLATES**

Abstract: Source: US5290663A A **photopolymer** useful in preparing water-developable, solid **printing plates** is prepared by (A) preparing a urethane prepolymer by reacting a polyoxyalkylene diol (optionally carboxylic acid grafted) with an excess of diisocyanate, followed by chain extending the resulting prepolymer mixture with a dialkylolpropionic acid and preferably with additional diols(s) such as alkane diol(s) and (meth)acrylate-containing diol(s). Use of a new (meth)acrylate-containing diol in such chain extension completes the formation of **photopolymer**. However, in a third operation (B) hydroxyalkylmethacrylate may be reacted with the result of (A) whether or not (meth)acrylate-containing diol is used in (A). The carboxylic acid groups of the **photopolymer** may also be partially neutralized with a base. The **photopolymer** is suitably formulated with additional photoactive (meth)acrylate monomers or oligomers and photoinitiator for casting on a substrate or extruding to form a flexographic **printing** plate. Following UV exposure of the plate through a **negative**, unexposed areas can be removed by washing with an aqueous alkaline solution to give a plate with a desirable relief image. The use of the aqueous alkaline washout solution as opposed to organic solvents minimizes pollution problems.

Classifications:

International (IPC 8-9): C08F299/06 C08G18/08 C08G18/10 C08G18/63 C08G18/67 G03F7/027 G03F7/035

G03F7/038 (Advanced/Invention);

C08F299/00 C08G18/00 G03F7/027 G03F7/032 G03F7/038 (Core/Invention)

International (IPC 1-7): C08F299/06 C08G18/08 C08G18/10 C08G18/34 C08G18/67 G03C1/73 G03F7/027 G03F7/035

CPC: Y10S430/114 Y10S430/128 G03F7/0384 C08G18/638 C08G18/672 C08G18/675 G03F7/035

European: C08G18/63V C08G18/67B4 C08G18/67D G03F7/035 G03F7/038M

US: 430/270.1 430/284 430/284.1 430/286.1 430/913 430/927 522/149 522/90 522/96 522/97

Family:

Publication number	Publication date	Application number	Application date
AT155258 E	19970715	AT19920311588T	19921218
DE69220804 D1	19970814	DE19926020804	19921218
DE69220804 T2	19971127	DE19926020804T	19921218
EP0602292 A1	19940622	EP19920311588	19921218
EP0602292 B1	19970709	EP19920311588	19921218
US5290663 A	19940301	US19910662699	19910301

Priority:

EP19920311588 19921218 US19910662699 19910301

Probable Assignee: PT SUB INC

Assignee(s): (std): GRACE W R AND CO ; PT SUB INC

Assignee(s): W R GRACE AND CO ; W R GRACE AND CO CONN ; PT SUB INC WILMINGTON DEL US ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AGENT AS ; MACDERMID PRINTING SOLUTIONS LLC AS SUCCESSOR IN INTEREST TO PT SUB INC ; WR GRACE AND CO CONN ; BANQUE PARIBAS AGENT AS ; BANQUE PARIBAS AS AGENT ; CREDIT SUISSE CAYMAN ISLANDS BRANCH AS COLLATERAL ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AGE

Inventor(s): (std): HUYNH TRAN TRUC CHI T ; HUYNH TRAN TRUC CHI THI

Inventor(s): HUYNH TRAN TRUC CHI THI BURTONSVILLE MARYLAND 2086 ; HUYNH TRAN TRUC CHI THI BURTONSVILLE MARYLAND 20866 US

Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

Title: METHOD FOR MAKING A **PRINTING** PLATE AND **PRINTING** PLATE

Abstract: Source: US2002108519A A method of producing a **printing** plate comprises: (a) providing a **printing** plate precursor comprising a topmost etchable first layer and a second layer located below the first layer, wherein the first and second layers have different affinities for at least one **printing** liquid; (b) imagewise providing atomized fluid particles in an interaction zone located above the surface of the first layer; and (c) imagewise directing laser energy into the interaction zone, wherein the laser energy has a wavelength which is substantially absorbed by the atomized fluid particles in the interaction zone, and the absorption of the laser energy causes the atomized fluid particles to imagewise impart kinetic energy to and etch the first layer. Lithographic and flexographic **printing plates** may be prepared according to this method, including waterless **plates**, **negative**- and positive-working **plates**, and processless **plates**.

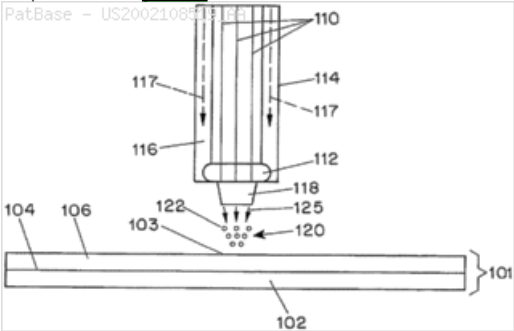
Classifications:

International (IPC 8-9): B41C1/05 B41C1/10 (Advanced/Invention); B41C1/02 B41C1/10 (Core/Invention)

International (IPC 1-7): B41C1/00 B41C1/02 B41C1/10 B41N3/00 B41N6/00

CPC: B41C2201/04 B41C2201/10 B41C2210/02 B41C2210/04 B41C2210/08 B41C1/1016 B41C1/05 B41C1/1066 B41C2210/16

US: 101/401.1 101/467 219/121.69 219/121.84



Family:

Publication number	Publication date	Application number	Application date
US2002108519 AA	20020815	US20010783776	20010215
US6588340 BB	20030708	US20010783776	20010215
WO02066254 A1	20020829	WO2002US01115	20020117

Priority:

US20010783776 20010215

Probable Assignee: EASTMAN KODAK CO

Assignee(s): (std): KODAK POLYCHROME GRAPHICS CO ; KODAK POLYCHROME GRAPHICS LLC

Assignee(s): KODAK POLYCHROME GRAPHICS CO LTD ; KODAK POLYCHROME GRAPHICS COMPANY LTD ; EASTMAN KODAK CO ; KODAK POLYCHROME GRAPHICS

Inventor(s): (std): FRIEDMAN PATRICK R

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT JP LU MC NL PT SE TR

Title: **PROCESS** FOR IMAGING OF LIQUID **PHOTOPOLYMER PRINTING PLATES**

Abstract: Source: US5776661A A method for curing a photosensitive resin composition includes use of an especially thin gauge protective cover film, preferably incorporating a coating to permit ease of removal after imaging. The method also uses a photosensitive resin composition incorporating a photospeed modified capping layer to selectively retard image growth during exposure. To eliminate undesirable defects in the cured **photopolymer**, a glass plate which had previously contacted and flattened the composition, is separated from the composition by at least 0.025 inches after partially curing the composition but prior to completely curing the composition. The partial cure of the composition is achieved by directing light to the composition from a source of actinic radiation positioned about 6 to 30 inches from the resin composition, where the actinic radiation has a wavelength of maximum intensity of about 365 to about 375 nm.

Classifications:

International (IPC 8-9): B41F5/24 B41N3/00 G03F7/00 G03F7/11 G03F7/20 G03F7/26 (Advanced/Invention); B41F5/00 B41N3/00 G03F7/00 G03F7/11 G03F7/20 G03F7/26 (Core/Invention)

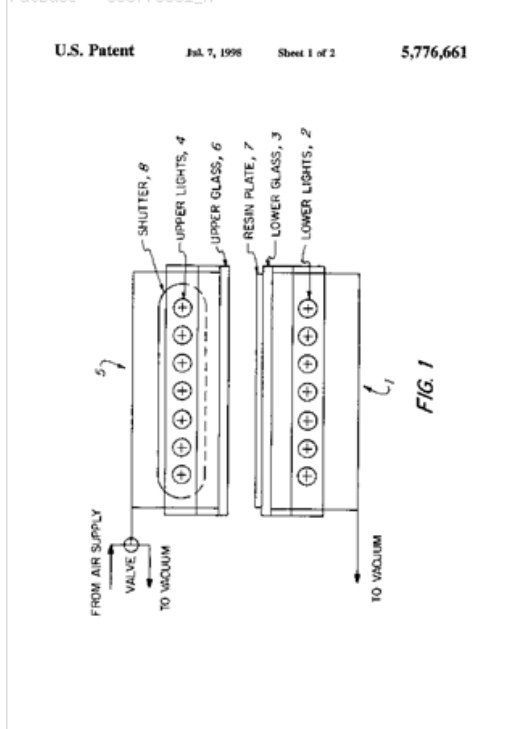
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CPC: G03F7/11 G03F7/2022

European: G03F7/11 G03F7/20B

US: 430/273.1 430/306

PatBase - US5776661_A



Family:

Publication number	Publication date	Application number	Application date
CA2156471 AA	19960225	CA19952156471	19950818
CA2156471 C	20060711	CA19952156471	19950818
DE69512597 D1	19991111	DE19956012597	19950823
DE69512597 T2	20000217	DE19956012597T	19950823
EP0706092 A1	19960410	EP19950113237	19950823
EP0706092 B1	19991006	EP19950113237	19950823
ES2139128 T3	20000201	ES19950113237T	19950823
JP8069106 A2	19960312	JP19950215806	19950824
US5776661 A	19980707	US19940295326	19940824

Priority:

CA19952156471 19950818 US19940295326 19940824

Probable Assignee: MACDERMID ACUMEN INC

Assignee(s): (std): HERCULES INC ; MACDERMID IMAGING TECHNOLOGY I ; MACDERMID IMAGING TECHNOLOGY

Assignee(s): BARCLAYS BANK PLC SUCCESSOR COLLATERAL AGENT AS ; CASALETTO NICOLA ; CREDIT SUISSE CAYMAN ISLANDS BRANCH AS COLLATERAL ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AGENT AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH FIRST LIEN COLLATERAL AGENT AG AS ; MACDERMID INC ; MACDERMID IMAGING TECHNOLOGY INC ; MACDERMID ACUMEN INC ; MACDERMID IMAGING TECHNOLOGY INC WATERBURY ; RACH JOSEPH F ; GIBBONS WAYNE M ; CREDIT SUISSE CAYMAN ISLANDS BRANCH SECOND LIEN COLLATERAL AGENT AG AS

Inventor(s): (std): CASALETTO NICOLA ; GIBBONS WAYNE M ; JIYOSU EFU RATSUKU ; NIKORA KASARETSUTO ; RACH JOSEPH F ; UEIN EMU GIIBONZU

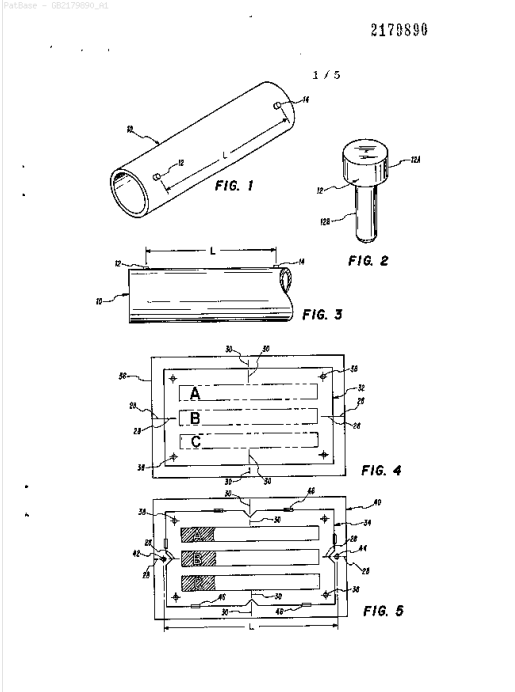
Agent(s): FETHERSTONHAUGH AND CO

Designated states: BE DE ES FR GB

Title: Pin register system in production of **printing plates**

Abstract: Source: GB2179890A In a method for accurately positioning **photopolymer** color **plates** onto **print** cylinders of a rotary press, alignment accuracy is provided by producing multiple color-separated film **negatives** from a camera film **negative** (34) on which an image field (A, B, C) and reference marks (28, 30, 38) have been photographically transferred from mechanical artwork, Fig. 4. Continuity of alignment accuracy is provided by center scribe reference marks (28, 30) utilized together with index holes (42, 44) which are precision located and punched, respectively, onto and through carrier sheets (40), masks, duplicating film and color separated **negatives**. Various combinations of pre-punched carrier sheet, masks, contact duplicating film, color separated **negatives**, and unexposed **printing plates** are mechanically coupled in precise alignment by pin register tabs throughout the various stages of the plate production **process**. Finished **photopolymer plates** are mounted onto assigned **print** cylinders with the aid of index pins.

Classifications:
International (IPC 8-9): G03F9/00 (Advanced/Invention);
G03F9/00 (Core/Invention)
International (IPC 1-7): G03F9/00
CPC: G03F9/00
European: G03F9/00



Family:

Publication number	Publication date	Application number	Application date
DE3532099 A1	19870319	DE19853532099	19850909
GB2179890 A1	19870318	GB19850021486	19850829
GB8521486 A0	19851002	GB19850021486	19850829

Priority:

GB19850021486 19850829 DE19853532099 19850909

Probable Assignee: WILSON ENGRAVING INC

Assignee(s): (std): WILSON ENGRAVING CO ; WILSON ENGRAVING CO INC ; WILSON ENGRAVING INC

Assignee(s): WILSON ENGRAVING COMPANY INC

Inventor(s): (std): GREEN SEN EUGENE L ; GREEN SR EUGENE LEE

Inventor(s): EUGENE LEE GREEN SR ; L GREEN SEN ; L GREEN SEN EUGENE

Title: ONIUM SALTS AND THE USE THEROF AS LATENT ACIDS

Abstract: Source: US2004053158A A chemically amplified photoresist composition comprising, (a) a compound which cures upon the action of an acid or a compound whose solubility is increased upon the action of an acid; and (b) as photosensitive acid donor, at least one compound of the formula Ia, Ib, Ic, IIb or IIc wherein R₁ is for example C1-Calkyl, C3-C30cycloalkyl, C1-C5haloalkyl, C2-C12alkenyl, C4-C8cycloalkenyl, C6-C12bicycloalkenyl, phenyl, naphthyl, anthracyl, phenanthryl, or is a heteroaryl radical; all of which are unsubstituted or substituted; optionally some of the substituents form 5- or 6-membered rings with further substituents on the phenyl, naphthyl, anthracyl, phenanthryl, or heteroaryl ring or with one of the carbon atoms of the phenyl, naphthyl, anthracyl, phenanthryl, or heteroaryl ring; R'₁ is for example C1-C12alkylene, C3-C30cycloalkylene, phenylene, naphthylene, diphenylene, or oxydiphenylene, wherein these radicals are unsubstituted or substituted; A and B for example are a direct bond; Ar₁ and Ar₂ independently of each other for example are phenyl, naphthyl, anthracyl, phenanthryl, or heteroaryl, all of which are unsubstituted or are substituted; Ar₃, Ar₄ and Ar₅ for example have one of the meanings given for Ar₁ and Ar₂; Y is for example C3-C3-C30cycloalkylene, phenylene, naphthylene, diphenylene, or oxydiphenylene, all of which are unsubstituted or substituted.

Classifications:

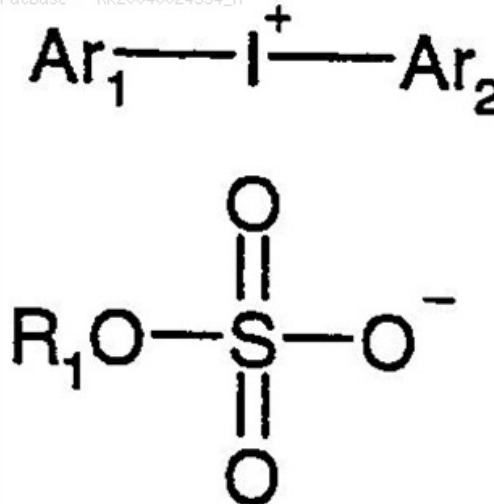
International (IPC 8-9): C07C25/00 C07C25/18 C07C305/00 C07C305/04 C07C305/06 C07C305/12 C07C305/18 C07C305/20 C07C305/22 C07C305/24 C07C381/12 C07D309/06 C07D317/54 C07D333/16 C07H9/04 C08G59/68 C08G65/10 G02B5/20 G03F7/004 H01L21/027 (Advanced/Invention); C07B61/00 G03F7/004 G03F7/039 (Advanced/Non-invention); C07C25/00 C07C305/00 C07C381/00 C07D309/00 C07D317/00 C07D333/00 C07H9/00 C08G59/00 C08G65/00 G02B5/20 G03F7/004 H01L21/02 (Core/Invention); C07B61/00 G03F7/039 (Core/Non-invention)

International (IPC 1-7): C07C25/00 C07C25/18 C07C305/04 C07C305/06 C07C305/12 C07C305/18 C07C305/20 C07C305/22 C07C305/24 C07C381/12 C07D309/06 C07D317/54 C07D333/16 C07H9/04 C08G59/68 C08G65/10 D03D41/00 G02B5/20 G03F7/00 G03F7/004 G03F7/20 G03F7/30 G03F7/38 G03H1/04 H01L21/027 **CPC:** Y10S430/111 Y10S430/115 Y10S430/118 Y10S430/122 Y10S430/123 C07H9/04 C07B2200/11 C07C25/18 C07C305/06 C07C305/20 C07C305/22 C07C305/24 C07C381/12 C07D309/06 C07D317/54 C07D333/16 C08G59/68 C08G65/105 C40B40/00 G03F7/0045 G03F7/039 C07C2601/14 B33Y70/00 G03F7/004

European: C07C25/18 C07C305/06 C07C305/20 C07C305/22 C07C305/24 C07C381/12 C07D309/06 C07D317/54 C07D333/16 C07H9/04 C08G59/68 C08G65/10P G03F7/004D M07B200/11 M07C101/14 M40B40/00 S03F7/039

US: 430/1 430/1S 430/270.1 430/270.100P 430/296 430/296S 430/302 430/302S 430/311 430/311S 430/322 430/322S 430/33 430/330 430/330S 430/7 430/7S 430/91 430/910 430/910S 430/914 430/914S 430/917 430/917S 430/921 430/921S 430/922 430/922S

PatBase - KR20040024534_A



Family:

Publication number	Publication date	Application number	Application date
AT394707 E	20080515	AT20010989514T	20011126
AU2002227945 AA	20020618	AU20020227945	20011126
AU200227945 A5	20020618	AU20020027945	20011126
BRPI0115944 A	20031223	BR2001PI15944	20011126
CA2428255 AA	20030520	CA20012428255	20011126
CA2428255 C	20100105	CA20012428255	20011126
CN100383665 C	20080423	CN20018020057	20011126
CN1662853 A	20050831	CN20018020057	20011126
DE60133929 D1	20080619	DE20016033929	20011126
EP1344109 A2	20030917	EP20010989514	20011126
EP1344109 B1	20080507	EP20010989514	20011126
IN00871CN2003 A	20050422	IN2003CN00871	20030604
JP2004526984 T2	20040902	JP20020548218T	20011126
JP4294317 B2	20090708	JP20020548218T	20011126
KR100862281 B1	20081015	KR20037007500	20011126
KR20040024534 A	20040320	KR20037007500	20011126
MXPA03004958 A1	20030905	MX2003PA04958	20011126
US2004053158 AA	20040318	US20030432263	20030521
US6929896 BB	20050816	US20010432263	20011126
WO0246507 A2	20020613	WO2001EP13725	20011126
WO0246507 A3	20020926	WO2001EP13725	20011126

Priority:

EP20000811147 20001204 EP20010810551 20010608 EP20010989514 20011126
WO2001EP13725 20011126 WO2001EP13725 20030604

Probable Assignee: CIBA SPECIALTY CHEMICALS CORP

Assignee(s): (std): ASAKURA TOSHIKAGE ; CIBA HOLDING INC ; CIBA SC HOLDING AG ; CIBALTD ; MATSUMOTO AKIRA ; OHWA MASAKI ; YAMATO HITOSHI

Assignee(s): CIBA SPECIALTY CHEMICALS CORP ; CIBA SPECIALTY CHEMICALS HOLDING INC

Inventor(s): (std): AKIRA MATSUMOTO ; ASAKURA TOSHIKAG ; ASAKURA TOSHIKAGE ; MATSUMOTO AKIRA ; HITOSHI YAMATO ; MASAKI OHWA ; YAMATO HITOSHI ; OHWA MASAKI ; TOSHIKAGE ASAKURA

Agent(s): FETHERSTONHAUGH AND CO; LOGGINS SHIELA A; SHIELA A

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Title: **PHOTOPOLYMER PRINTING** PLATE IMPROVED IN WATER RESISTANCE AND ITS PREPARATION

Abstract: Source: US3905819A A method for making water-resistant a water developed **photopolymer printing** plate obtained by exposing a **photopolymer printing** plate in the close contact with a **negative** to a light and developing the resulting plate with water, the said **photopolymer printing** plate essentially consisting of a support material and a layer of a water-soluble photosensitive resin composition comprising a water-soluble polymer, an acrylic monomer and a photopolymerization initiator provided thereon intervening or not an anti-halation layer between them, which comprises treating the water developed **photopolymer printing** plate with an aldehyde so as to acetalize the hydroxyl groups in the molecules of the water-soluble polymer included in the water-soluble photosensitive resin composition.

Classifications:

International (IPC 8-9): G03C5/00 G03F7/00

G03F7/40 (Advanced/Invention);

G03C5/00 G03F7/00 G03F7/40 (Core/Invention)

International (IPC 1-7): B41N3/00 G03C1/68 G03C11/06 G03C5/00 G03F7/00 G03F7/02 G03F7/08 G03F7/10

CPC: Y10S430/11 G03F7/40

European: G03F7/40

US: 430/288.1 430/309 430/909 96/35.1 96/351

**SUBSTITUTE
REPLACEMENT**

SECTION is not Present

Cette Section est Absente

Family:

Publication number	Publication date	Application number	Application date
AU197363338 A1	19750612	AU19730063338	19731206
AU472510 B2	19760527	AU19730063338	19731206
CA1000103 A1	19761123	CA19730188143	19731213
DE2362005 A1	19740704	DE19732362005	19731213
DE2362005 C2	19840614	DE19732362005	19731213
DK143148 B	19810629	DK19730006818	19731214
DK143148 C	19811221	DK19730006818	19731214
FR2210779 A1	19740712	FR19730044846	19731214
FR2210779 B1	19810925	FR19730044846	19731214
GB1431604 A	19760414	GB19730058295	19731217
JP49083503 A2	19740812	JP19720126569	19721215
JP52023281 B4	19770623	JP19720126569	19721215
JP897956 C3	19780225	JP19720126569	19721215
SE395776 B	19770822	SE19730016928	19731214
SE395776 C	19771201	SE19730016928	19731214
US3905819 A	19750916	US19730422203	19731206

Priority:

JP19720126569 19721215

Probable Assignee: NAPP SYSTEMS USA INC A CORP OF IOWA

Assignee(s): (std): NIPPON PAINT CO LTD

Assignee(s): NIPPON PAINT CO LTD A CORP OF JAPAN ; NIPPON PAINT CO LTD JA ; NIPPON PAINT CO LTD OSAKA JAPAN ; NIPPON PAINT CO LTD OSAKA JP ; NIPPON PAINT CO LTD A OF JAPAN CORP ; TAKIMOTO YASUYUKI ; SAKURAI KIYOMI ; FUKUSHIMA YUTAKA ; NAPP SYSTEMS (USA) INC A CORP OF IOWA ; NAPP SYSTEMS INC ; NAPP SYSTEMS USA INC A CORP OF IOWA ; NIPPON PAINT CO

Inventor(s): (std): TAKIMOTO YASUYUKU ; TAKIMOTO YASUYUKI ; TAKIMOTO Y ; SAKURAI KIYOMI ; SAKURAI K ; FUKUSHIMA YUTAKA ; FUKUSHIMA Y

Inventor(s): KIYOMI SAKURAI ; K SAKURAI ; FUKUSHIMA YUTAKA SUITA OSAKA JP ; FUKUSHIMA YUTAKA SUITA ; SAKURAI KIYOMI HIRAKATA OSAKA JP ; SAKURAI KIYOMI HIRAKATA ; YUTAKA FUKUSHIMA ; YASUYUKI TAKIMOTO ; Y TAKIMOTO ; Y FUKUSHIMA ; TAKIMOTO YASUYUKU TAKATSUKI OSAKA JP ; TAKIMOTO YASUYUKU TAKATSUKI

Title: MULTIBLOCK COPOLYMERS FOR FLEXOGRAPHIC **PRINTING PLATES**

Abstract: Source: US5304458A Flexographic photosensitive **printing plates** are made with formulations comprising block polymers having an architecture of BA, CBA or CBCA, where A is poly(vinylpyridine), B is poly(butadiene) or poly(isoprene) and C is styrene. The polymers may be quaternized or neutralized with an organic acid. When made with quaternized polymers, the **plates** after imaging with UV may be developed in aqueous solutions. The block polymers offer further advantages as to ease of synthesis, safety and improved resolution.

Classifications:

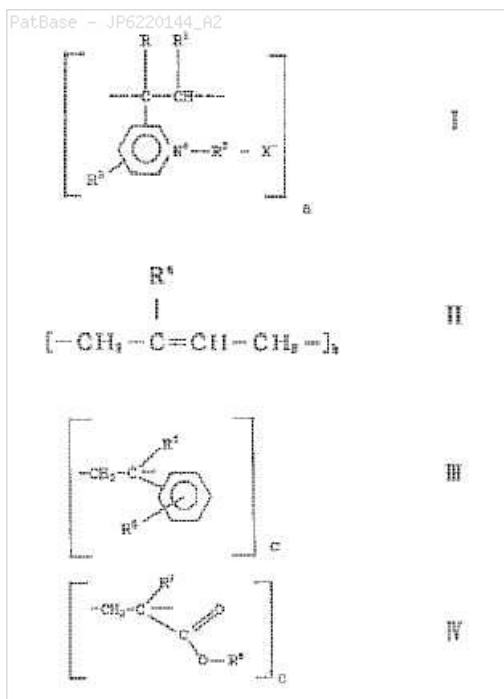
International (IPC 8-9): C08F297/02 C08F297/04 C08F8/44 G03F7/027 G03F7/029 G03F7/033 G03F7/038 (Advanced/Invention); G03F7/027 G03F7/029 G03F7/038 (Advanced/Non-invention); C08F297/00 C08F8/00 G03F7/027 G03F7/029 G03F7/033 G03F7/038 (Core/Invention)

International (IPC 1-7): C08F226/06 C08F236/06 C08F236/08 C08F287/00 C08F293/00 C08F297/02 C08F297/04 C08F8/00 C08F8/02 C08F8/44 G03C1/68 G03C1/70 G03C1/72 G03F7/004 G03F7/027 G03F7/028 G03F7/029 G03F7/033 G03F7/038

CPC: Y10S430/108 G03F7/033 C08F8/44 C08F297/048

European: C08F297/04P C08F8/44 G03F7/033

US: 430/271.1 430/281 430/281.1 430/286 430/286.1 430/291 430/300 430/302 430/306 430/907 522/107 522/110 522/121

**Family:**

Publication number	Publication date	Application number	Application date
AU199344964 A1	19940317	AU19930044964	19930830
AU667387 B2	19960321	AU19930044964	19930830
BRPI9303728 A	19940315	BR1993PI03728	19930908
CN1086827 A	19940518	CN19931018979	19930908
DE69312190 D1	19970821	DE19936012190	19930823
EP0587261 A2	19940316	EP19930250231	19930823
EP0587261 A3	19940720	EP19930250231	19930823
EP0587261 B1	19970716	EP19930250231	19930823
JP3427849 B2	20030722	JP19930243546	19930906
JP6220144 A2	19940809	JP19930243546	19930906
US5304458 A	19940419	US19920941486	19920908

Priority:

US19920941486 19920908

Probable Assignee: PT SUB INC

Assignee(s): (std): GRACE W R AND CO ; PT SUB INC

Assignee(s): WR GRACE AND CO ; W R GRACE AND CO CONN ; W R GRACE AND CO ; PT SUB INC WILMINGTON DEL US ; WR GRACE AND CO CONN ; BANQUE PARIBAS AGENT AS ; BANQUE PARIBAS AS AGENT

Inventor(s): (std): KANGA RUSTOM S ; KANGA RUSTOM SAM ; BERRIER ARTHUR L ; BERRIER ARTHUR LEROY ; RASUTAMU SAMU KANGA ; AASAA REROI BERIYAA

Inventor(s): ARTHUR LEROY BERRIER ; BERRIER ARTHUR LEROY COLUMBIA MD 21043 US ; KANGA RUSTOM SAM COLUMBIA MD 21043 US ; RUSTOM SAM KANGA

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD

Designated states: DE ES FR GB IT NL

Abstract: Source: US2009011363A Radiation-sensitive element comprising a substrate and a radiation-sensitive coating comprising (a) at least one component selected from photoinitiators and sensitizer/coinitiator systems which absorbs radiation of a wavelength in the range of 250 to 1,200 nm; (b) at least one free-radical polymerizable oligomer A having an average molecular weight in the range of 3,500 to 9,000 determined by GPC, obtainable by reacting a triisocyanate with (i) at least one acrylic or methacrylic monomer with two free OH groups and at least one (meth)acrylic group and (ii) at least one compound comprising one OH group, at least one (meth)acrylic group and at least one poly(alkyleneoxide) chain in the molecule, wherein the (meth)acrylic monomer (i) is present in an amount of 2 to 20 mole- percent, based on the total amount of (meth)acrylic compounds with OH functionality.

International (IPC 8-9): B41C1/10 B41M5/40 C08F290/00
G03C1/705 G03C1/73 G03F7/00 G03F7/04 G03F7/027 G03F7/028
G03F7/038 G03F7/09 G03F7/20 G03F7/30 (Advanced/Invention);
B41C1/10 B41M5/40 C08F290/00 G03C1/705 G03C1/73 G03F7/00
G03F7/04 G03F7/027 G03F7/028 G03F7/038
G03F7/20 (Core/Invention)

B41C2210/06 B41C2210/22 B41M5/368

L41C210/06 L41C210/22

US: 430/270.1 430/278.1 430/278.100P 430/280.1 430/280.100S

430/283.1 430/283.100S 430/284.1 430/285.1 430/285.100S

430/302 430/325 430/325S

43

Publication number	Publication date	Application number	Application date
CN101379432 A	20090304	CN200780001847	20070102
CN101379432 B	20120502	CN200780001847	20070102
DE102006000783 B3	20070426	DE200610000783	20060104
EP1969426 A2	20080917	EP20070702560	20070102
EP1969426 B1	20100922	EP20070702560	20070102
JP2009522609 T2	20090611	JP20080548991T	20070102
JP4824774 B2	20111130	JP20080548991T	20070102
US2009011363 AA	20090108	US20070159287	20070102
US8119331 BB	20120221	US20070159287	20070102
WO07077207 A2	20070712	WO2007EP00009	20070102
WO07077207 A3	20071129	WO2007EP00009	20070102

DE200610000783 20060104 WO2007EP000009 20070102

Assignee(s): (std): BAUMANN HARALD ; KODAK POLYCHROME GRAPHICS GMBH ; MUELLER URSULA ; STREHMEL BERND ; KODAK GRAPHIC COMM GMBH ; MULLER URSULA ; DWARS UDO

Assignee(s): EASTMAN KODAK CO ; WILMINGTON TRUST NATIONAL ASSOCIATION AGENT AS ; JPMORGAN CHASE BANK NA ADMINISTRATIVE AS ; PAKON INC ; KODAK GRAPHIC COMMUNICATIONS GMBH ; CITICORP NORTH AMERICA INC AGENT AS ; BANK OF AMERICA NA AGENT AS ; BARCLAYS BANK PLC ADMINISTRATIVE AGENT AS

Inventor(s): (std): BAUMANN HARALD ; BERND STREHMEL ; DWARS UDO ; HARALD BAUMANN ; MUELLER URSULA ; MULLER URSULA ; STREHMEL BERND ; UDO DWARS ; URSULA MUELLER

Agent(s): VOSSIUS AND PARTNER; WEBER ETIENNE NICOLAS; EASTMAN KODAK COMPANY, PATENT LEGAL STAFF; EASTMAN KODAK CO PATENT LEGAL STAFF; J LANNY

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: **PROCESS** FOR THE PRODUCTION OF A LIGHT-SENSITIVE **PRINTING** PLATE

Abstract: Source: GB1514506A 1514506 Making light-sensitive **printing plates** HOECHST AG 15 Aug 1975 [19 Aug 1974] 34041/75 Heading G2X A **process** for producing a light-sensitive **printing** plate comprises forming an impression with a finemeshed screen on a coating of light-sensitive material on an opaque carrier, the coating being wet with a liquid in which the light-sensitive material is soluble. As shown, the carrier 2 passes over a rotating drum 1, and a coating 6 of the light-sensitive material is applied to it from a dispenser 3. A fine-meshed net 7 is formed as an endless web passing round rollers 4, and this is brought into contact with the coating 6 so that the mesh pattern is impressed thereon. The mesh may be made of fine metal wires or plastic fibres, and preferably has a mesh density of from 20-200 meshes per cm. The structural coating 6' then passes to a drying chamber 10, while the mesh is passed through a cleaning bath 5. In an alternative arrangement, Fig. 1a (not shown) the coating is applied to the carrier through the mesh. In a further alternative arrangement, Fig. 2 (not shown) the coating is already dry before coming into contact with the mesh, which is then wetted with a solution in which the coating is soluble. The **printing** plate so produced is suitable for the reproduction of continuous tones without necessitating the use of a half-tone screen.

Classifications:

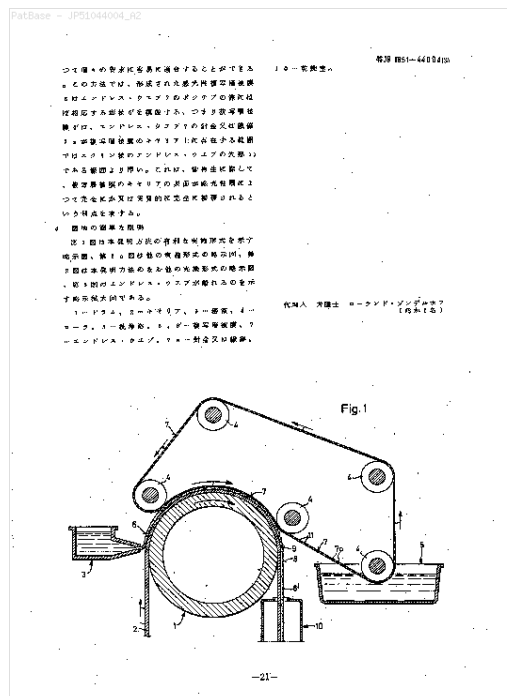
International (IPC 8-9): B41C1/10 G03F5/16 G03F7/00 G03F7/115 G03F7/16 (Advanced/Invention);

G03F7/00 G03F7/09 G03F7/16 (Core/Invention)

International (IPC 1-7): B41C1/10 G03F5/14 G03F5/16 G03F7/02 G03F7/16

CPC: G03F7/115

European: G03F7/115



Family:

Publication number	Publication date	Application number	Application date
CA1044512 A1	19781219	CA19750233557	19750815
DE2439730 A1	19760304	DE19742439730	19740819
DE2439730 C2	19830915	DE19742439730	19740819
FR2282660 A1	19760319	FR19750025487	19750818
FR2282660 B3	19780407	FR19750025487	19750818
GB1514506 A	19780614	GB19750034041	19750815
IT1041240 A	19800110	IT19750050949	19750813
JP1181625 C3	19831209	JP19750100052	19750818
JP51044004 A2	19760415	JP19750100052	19750818
JP58014674 B4	19830322	JP19750100052	19750818

Priority:

DE19742439730 19740819

Probable Assignee: HOECHST AG

Assignee(s): (std): HOECHST AG

Assignee(s): HOECHST AG 6000 FRANKFURT ; HOECHST AKTIENGESELLSCHAFT ; SCHROTER HERBERT

Inventor(s): (std): HERUBERUTO SHUREETERU ; SCHROETER HERBERT ; SCHROETER HERBERT DIPL PHYS DR

Inventor(s): SCHROETER HERBERT DIPL PHYS DR 6204 TAUNUSSTEIN ; SCHROETER HERBERT DIPL PHYS DR 6204 TAUNUSSTEIN DE ; SCHROTER HERBERT

Title: **PROCESS** AND APPARATUS FOR PREPARING A RELIEF IMAGE ON A CONTINUOUS SUPPORT

Abstract: Source: GB1472979A 1472979 **Printing plates** WR GRACE and CO 25 April 1975 [10 April 1974] 16027/74
Heading G2A A relief image is produced by applying a coating of photocurable material to a web, feeding the coated web stepwise or continuously to an imagewise exposure zone, and developing the image by removing the unexposed coating from the web. The coated web may be exposed to U.V. radiation through a transparency or to an electronically controlled laser or electron beam. As shown, a primed anodized aluminium web is passed under coating means including a fluorescent lamp for preactivation of the photocurable material and over temperature-controlled infrared lamps to the nip between rollers 5 from where it is passed together with a **negative**-bearing adhesive-coated transparent web to an imagewise exposure station where ionized air is blown through a gap between the transparency and the photocurable material. Development is then effected by an air knife while the web is held by a heated metal plate and the developed web is passed through a nip together with a web of absorbent paper and over a postexposure station after which it is cut and stacked. Apart from manual feeding of **negatives** in succession, sensed by a photo-cell, operation is automatic.

Classifications:

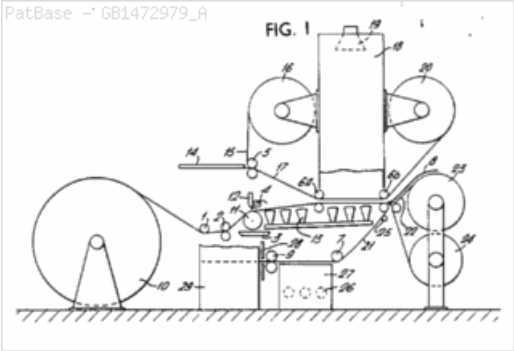
International (IPC 8-9): G03F7/36 (Advanced/Invention);

G03F7/36 (Core/Invention)

International (IPC 1-7): G03B27/02

CPC: G03F7/36

European: G03F7/36



Family:

Publication number	Publication date	Application number	Application date
GB1472979 A	19770511	GB19740016027	19750425

Priority:

GB19740016027 19750425

Probable Assignee:

GRACE W R AND CO

Assignee(s): (std):

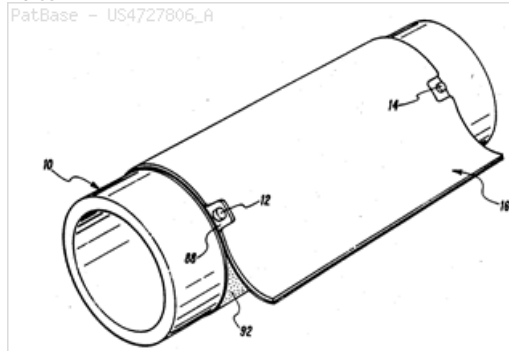
GRACE W R AND CO

Assignee(s):

GRACE CO W

Abstract: Source: US4727806A A method for accurately positioning **photopolymer** color **plates** onto **print** cylinders of a rotary press is disclosed. The **photopolymer plates** are prepared with the aid of specially prepared color separated films and are mounted onto assigned **print** cylinders with the aid of index pins. Alignment accuracy is provided in part by producing each color separated film from the same camera film **negative** on which an image field and reference marks have been photographically transferred from mechanical artwork. Continuity of alignment accuracy is provided by center scribe reference marks utilized together with index holes which are **precision** located and punched, respectively, onto and through carrier sheets, masks, duplicating film and color separated **negatives**. Various combinations of pre-punched carrier sheets, masks, contact duplicating film, color separated **negatives**, and unexposed **printing plates** are mechanically coupled in precise alignment by pin register tabs throughout the various stages of the plate production **process**. In particular, superimposed sheets are coupled together and center scribe marks are maintained in alignment by pin register tabs which are received in registration in the precision punched index holes.

International (IPC 8-9): B41F27/00 B41F27/12
B41L29/00 (Advanced/Invention);
B41F27/00 B41F27/12 B41L29/00 (Core/Invention)
International (IPC 1-7): B41F27/12 B41L29/00
CPC: B41N6/00 B41F27/005 B41F27/1275
European: B41F27/00R B41F27/12D4
US: 101:415.1



Publication number	Publication date	Application number	Application date
CA1243896 A1	19881101	CA19850491585	19850926
US4727806 A	19880301	US19870014109	19870203

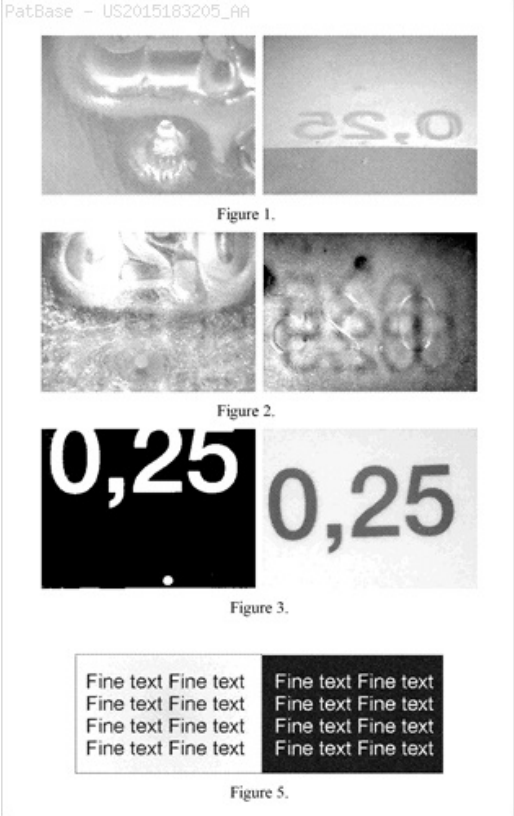
CA19850491585 19850926 US19850769367 19850826 US19870014109 19870203

Assignee(s): (std): WILSON ENGRAVING CO INC ; WILSON ENGRAVING INC
Assignee(s): GREEN EUGENE L SR ; WILSON ENGRAVING COMPANY INC
Inventor(s): (std): GREEN SR EUGENE L ; GREEN EUGENE L SR
Inventor(s): GREEN EUGENE L
Agent(s): MOFFAT AND CO

Title: METHOD FOR OPTIMISING FLEXOGRAPHIC NEGATIVES

Abstract: Source: US2015183205A The invention provides an improved method of imaging analogue flexographic liquid and sheet printing plates. Specifically it involves adding colour or greyscale to some of the clear parts of negatives used to make flexographic plates. This colour moderates the light allowed through the clear areas, keeping reverses open to the maximum depth possible, preventing the widening or overexposure of relief and reverse whilst allowing the maximum amount of light through the small clear areas making the fine relief. It does this by calculating the correct amount of light for each part of the negative according to the predicted amount of light that will be transmitted through it, adjusting the intensity of colour accordingly. It provides a technical advantage of using a negative over the digital process, widening the amount of information available to create the printing plate from just black and white. It enables the plate maker to achieve an optimal printing plate independent of design. The incorporation of a half tone screen over the selective colour enhances total ink delivered. The screen can also level out intensity irregularities in intensities in the exposure units.

Classifications:
International (IPC 8-9): B41C 3/00 (Advanced/Invention)
CPC: G03F7/2002 G03F7/201
US: 101/401.1



Family:

Publication number	Publication date	Application number	Application date
US2015183205 AA	20150702	US20130142883	20131229

Priority:
US20130142883 20131229

Probable Assignee: HOLT PAUL MAYO
Assignee(s): (std): HOLT PAUL MAYO
Inventor(s): (std): HOLT PAUL MAYO

Title: IMAGEWISE-EXPOSED, PRESENSITISED **PRINTING** PLATE - DESENSITISED BY DEVELOPING WITH ORG. LIQ., WIPING OFF AND TREATING WITH AQS. DESENSITISING SOLN.

Abstract: Source: FR2217722A Imagewise-exposed plate, presensitised with a **negatively** acting **photopolymer** for prodn. of lithographic **plates**, is developed and desensitised by (a) developing with a non-desensitising developer consisting of an org. liq. which is not a selective solvent for the regions of the **photopolymer** that have not been impacted by light, (b) wiping off the plate in order to completely remove the remaining developer upon the plate after development, and (c) treating with an aqs. desensitising soln. which is capable of holding the **photopolymer** contaminated with traces of developer in suspension. **Printing plates** can be produced rapidly and economically from the presensitised **plates**. >50,000 good **prints** can be obtd. from the **printing plates**, or ca. 400,000 **prints**, if a suitable metal base material is used.

Classifications:

International (IPC 8-9): B41N3/08 G03F7/30 G03F7/32

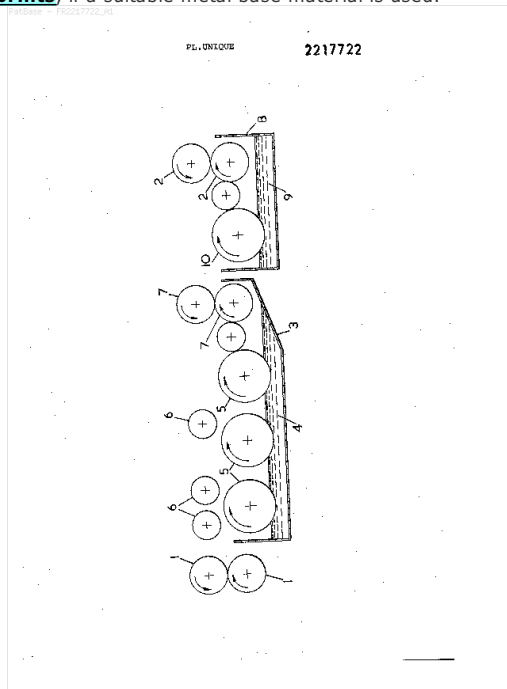
G03F7/42 (Advanced/Invention);

B41N3/00 G03F7/30 G03F7/32 G03F7/42 (Core/Invention)

International (IPC 1-7): G03C5/24 G03D G03F7/00 G03F7/02

CPC: G03F7/325 G03F7/32

European: G03F7/32B



Family:

Publication number	Publication date	Application number	Application date
BE810926 A1	19740529	BE19740140828	19740212
DE2407089 A1	19740905	DE19742407089	19740214
FR2217722 A1	19740906	FR19740004997	19740214
FR2217722 B3	19761126	FR19740004997	19740214
IT1002926 A	19760520	IT19740048354	19740214
JP49111703 A2	19741024	JP19740017216	19740214
LU69378 A	19740529	LU19740069378	19740212
NL7401885 A	19740816	NL19740001885	19740212
NL7401885 A1	19740816	NL19740001885	19740212
ZA7400786 A	19741224	ZA19740000786	19740206

Priority:

GB19730000072 19730214

GB19730007372 19730214

GB19730026882 19730605

Probable Assignee:

VICKERS LTD

Assignee(s): (std):

VICKERS LTD

Assignee(s):

VICKERS LTD GB

Inventor(s): (std):

LAWSON L ; LAWSON LESLIE EDWARDS

Inventor(s):

EDWARDS LAWSON LESLIE

Title: COMPOSITION FOR REMOVING PHOTOPOLYMERIC COATING FROM BASE SURFACE

Abstract: Source: SU898377T Invention relates to the **printing** industry, and can be used for producing **photopolymer printing plates**, and also in the photolithography **process** in radio.tehnicheskoy industry. known **photopolymer** composition for removing coatings (. photoresist) from the substrate surface comprising a low molecular weight aliphatic nitrile, for example acetonitrile, an insoluble salt of a nitrile, for example sodium thiosulfate, water, polyethylene glycol, and I. disadvantages compositions are its complex composition and low storage stability. closest to the proposed composition is to remove the **photopolymer** coating (photoresist) from the substrate povepxnocti comprising water, dissolving agent - an alkali, hydrogen peroxide and Z. disadvantages of this composition is that it is toxic and leads to a deterioration of working conditions in the manufacture of **photopolymer printing plates**. Moreover, when using this composition for removing **photopolymer** layers on the basis of acrylate oligomers of the aluminum substrate, was observed bleed, destruction of the substrate that does not allow the use of aluminum substrates repeatedly. The purpose of the invention - improving working conditions and reducing bleed aluminum substrates. I The goal is achieved in, the composition to remove the **photopolymer** coating from the substrate surface, comprising water and dissolving agent, as the latter contains nadsernokisly nadsernokisly ammonium or sodium or potassium nadsernokisly in the following ratio (by weight): Nadsernokisly ammonium, sodium or iadsernokisly or nadsernokisly kaliy10 50 VodaOstalnoe When EXAMPLE 1. An aqueous solution of ammonium nadsernokislogo. To the resulting solution were immersed **printing** forme for 2 hours using a **photopolymer printing** selectively coated with the following composition, wt. percent: ????????????????????????????? (TGM-3) 10-50 benzoin methyl ester, 1-5 Epoxy resin (ED-20) 7-10 spirt2 Ethyl Rhodamine-3, 1-0 SZH0, Ji4 metakrildi-dietilenglikolfatalat (MDP-2) 79, 9-66, 6 Then swab rubbed plastic to completely remove fotopolimernog coating (no more than 1-2 min.). After washing and drying the aluminum layer of us it is applied to a new layer and an kopiroval after exposure to **negative** receive quality ne Example 10 OObo Example 20,0053 example example 30.0050 40,0072 Example 50,0070 Example 60,0058 Example 70,0070 Example 80.00 b5 Example 90 OObo estnyy0, 0028 120 ecurity 120 | | 100 - 120 120 | | 100 - 120 | | 120 and 120 1 | dangerous (toxic) form of chutney. After **printing** with it, the operations can be repeated at least 3 times. Example Example 2. An aqueous ammonium rastor nadsernokislogo. Further, as in Example 1. At steps 3 - Prepare a 50 percent-aqueous ammonium rastor nadsernokislogo. Further, as in Example 1. At steps k. An aqueous solution of sodium nadsernokislogo. Further, as in Example 1. EXAMPLE EXAMPLE 5. Nadsernokislogo An aqueous solution of sodium. Further, as in Example 1. EXAMPLE Example 6. Prepare a 50 percent-aqueous solution of sodium nadsernokislogo. Further, as in Example 1. EXAMPLES Example 7 - Prepare 10 percent-aqueous solution of potassium nadsernokislogo. Further, as in Example 1. At action 8. Prepare a 30 percent-aqueous solution of potassium nadsernokislogo. Further, as in Example 1. EXAMPLE EXAMPLE 9 - Prepare 50 percent-aqueous solution of potassium nadsernokislogo. Further, as in Example 1. Surface characteristics of the aluminum substrate and the coating of the **photopolymer** poble.udaleni obtained **printing plates** thereon are shown in Table. 5 As can be seen from these results that the proposed structure for the removal of the **photopolymer** coating improves conditions. Labor, does not destroy the surface of aluminum **plates** that allow them to be used for the production of multiple forms. **Printed** forms after removal of the **photopolymer** coating kratnog characterized by a high resolving power (120-1 40 l / cm) Composition Formula invention for removing the **photopolymer** coating. Substrate surface comprising water and dissolving agent, characterized in that, in order to improve working conditions and Discount bleed pod7 aluminum spoons, as dissolving agent it contains nadsernokisly nadsernokisly ammonium or sodium or potassium nadsernokisly in the following ratio, weight. percent: Nadsernokisly ammonium, potassium or nadsernokisly or nadsernokisly natriy10 VodaOstalnoe-50 Sources of information received into account in the examination of the German Application 1.Za If 2b29 5b, cl. H x 05 3/22, published. 1978. 2.Avtorskoe Certificate USSR IT, cl. G 03 C 1/66, published. 1976 (prototype).

Classifications:

International (IPC 8-9): G03F7/42 (Advanced/Invention)

International (IPC 1-7): G03C1/68

Family:

Publication number	Publication date	Application number	Application date
SU898377 A1	19820115	SU19792843674	19791127
SU898377 T	19820115	SU19792843674	19791127

Priority:

SU19792843674 19791127

Probable Assignee: UK POLIGRAFICHESKIY I IM IV FE

Assignee(s): (std): UK POLIGRAFICHESK I ; UK POLIGRAFICHESKIY I IM IV FE

Assignee(s): UK POLIGRAFICHESKIY I IM IV FEDOROVA

Inventor(s): (std): KUSHCHAK IRINA S ; LAZARENKO EDUARD T ; MERVINSKIY ROMAN I ; TOKARCHIK ZINOVIYA G

Inventor(s): TOKARCHIK ZINOVIYA G SU ; MERVINSKIY ROMAN I SU ; LAZARENKO EDUARD T SU ; KUSHCHAK IRINA S SU

Title: Urethane polymers for **printing** plate compositions.

Abstract: Source: EP0452139A2 A urethane polymer having free carboxyl groups on the backbone of the polymer and terminal methacrylate groups is prepared by (1) reacting a mixture of at least two aliphatic diols and an aliphatic dihydroxy mono- or dicarboxylic acid with an excess of an aliphatic, cycloaliphatic or aromatic diisocyanate in the presence of a catalyst to produce an isocyanate-terminated urethane polymer and (2) reacting the terminal isocyanate groups of the product of step (1) with an aliphatic monohydroxy methacrylate. The polymer can be used in photopolymerizable compositions for making tack-free flexographic **printing plates**.

Classifications:

International (IPC 8-9): B41N1/12 C08F299/06 C08G18/32 C08G18/34 C08G18/66 C08G18/67 C08G18/83

G03F7/035 (Advanced/Invention);

B41N1/12 C08F299/00 C08G18/00 G03F7/032 (Core/Invention)

International (IPC 1-7): B41N1/12 C08F299/06 C08G18/12 C08G18/32 C08G18/34 C08G18/66 C08G18/67 C08G18/80 C08G18/83

CPC: C08G18/348 C08G18/6692 C08G18/672 G03F7/035

European: C08G18/34H C08G18/66P4 C08G18/67B4 G03F7/035

Family:

Publication number	Publication date	Application number	Application date
CA2040097 AA	19911013	CA19912040097	19910409
DE69128943 D1	19980402	DE19916028943	19910411
DE69128943 T2	19980618	DE19916028943T	19910411
EP0452139 A2	19911016	EP19910303234	19910411
EP0452139 A3	19920902	EP19910303234	19910411
EP0452139 B1	19980225	EP19910303234	19910411
GB9008339 A0	19900613	GB19900008339	19900412
GB9009057 A0	19900620	GB19900009057	19900423
JP3105937 B2	20001106	JP19910105190	19910411
JP4227622 A2	19920817	JP19910105190	19910411

Priority:

GB19900008339 19900412 GB19900009057 19900423

Probable Assignee: MACDERMID IMAGING TECHNOLOGY I

Assignee(s): (std): HERCULES INC ; MACDERMID IMAGING TECHNOLOGY ; MACDERMID IMAGING TECHNOLOGY I

Assignee(s): MACDERMID IMAGING TECHNOLOGY INC ; MACDERMID IMAGING TECHNOLOGY INC WATERBURY CONN US

Inventor(s): (std): YOKOYAMA WAKO ; WAKO YOKOYAMA

Inventor(s): YOKOYAMA WAKO WILMINGTON DELAWARE 19808 US

Designated states: DE FR GB

Title: Method of manufacturing photorelief **printing** plate using a liquid **photopolymer**

Abstract: Source: US4720448A In the **process** of making relief **printing plates** a liquid photopolymerizably layer having substantially identical **negatives** on each of its two sides and being in registration and also having a transparent substrate is exposed to an external light source so that both sides are exposed to the same image and after removal of the **negatives** the unexposed areas of the plate are removed.

Classifications:

International (IPC 8-9): G03F7/20 (Advanced/Invention);
G03F7/20 (Core/Invention)

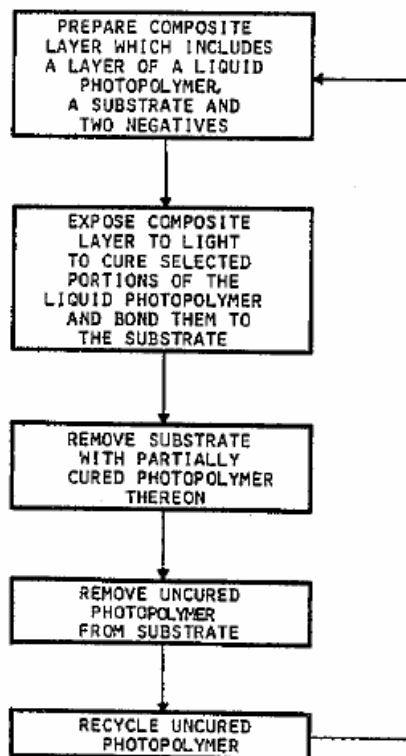
International (IPC 1-7): G03C7/02

CPC: G03F7/2022

European: G03F7/20B

US: 430/300 430/301 430/306 430/394 430/494

PatBase - US4720448_R



Family:

Publication number	Publication date	Application number	Application date
US4720448 A	19880119	US19840646881	19840904

Priority:

US19840646881 19840904

Probable Assignee: OWENS ILLINOIS PLASTIC PRODUCTS INC A CORP OF DE

Assignee(s): (std): OWENS ILLINOIS PLASTIC PROD

Assignee(s): OWENS ILLINOIS PLASTIC PRODUCTS INC ; OWENS ILLINOIS PLASTIC PRODUCTS INC A CORP OF DE ; OWENS ILLINOIS INC ; OWENS ILLINOIS INC A CORP OF OH

Inventor(s): (std): MOUSSEAU CARLTON R

Abstract: The invention relates to a method and computer program for producing models for **printing** blocks with the aid of a data **processing** system containing at least one input unit, at least one display unit, a memory unit and an output unit. According to the invention, the memory unit comprises a memory area for the long-term storage of presentations and a memory area for the short-term storage of variable **printing** block data. Said invention comprises the following steps; a) input of a presentation and storage of said presentation in a memory area for long-term storage or accessing a presentation in said memory area; b) input of variable data for the **printing** block model and storage of the variable data in the memory area for the short-term storage of the variable **printing** block data; c) automatic arrangement of the variable data in predetermined positions and d) **printing** the model via an output unit.

International (IPC 8-9): G03F1/00 G03F1/04
G03F1/12 (Advanced/Invention)

International (IPC 1-7): B41B19/00 B41C1/00 G03F1/00 G03F1/04
G03F1/12 G06K15/00 H04N1/387

CPC: G03F1/90 G03F1/68

European: G03F1/54 G03F1/68 G03F1/90



Publication number	Publication date	Application number	Application date
AU2002231653 AA	20020701	AU20020231653	20011205
AU200231653 A5	20020701	AU20020031653	20011205
DE10063113 A1	20020704	DE20001063113	20001218
WO0249841 A2	20020627	WO2001EP14236	20011205
WO0249841 A3	20030605	WO2001EP14236	20011205

DE20001063113 20001218 WO2001EP14236 20011205

Assignee(s): (std): BAYER AG ; BERNHARD RALF ; KIES WERNER

Assignee(s): BAYER AKTIENGESELLSCHAFT

Inventor(s): (std): BERNHARD RALF ; KIES WERNER

Inventor(s): RALF BERNHARD ; WERNER KIES

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MY NZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SV TA TC TJ TM TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Title: Bilayer photosensitive imaging article

Abstract: Source: US4472494A Bilayer photosensitive imaging articles comprising a substrate coated with an image layer and a resist layer are disclosed. The substrate may be transparent, translucent or opaque to give imaging articles useful in different applications. The image layer which should be from about 0.3-3.0 microns in thickness includes an organic film-forming vehicle from the group of copolymers of the formula: where P is styrene, ethylene or methyl vinyl ether; m is 1-3; n is 1,10; X is OH, OHN2, ONH4, OR, ONH3R, ONH2R2, ONHR3, ONH3RNH2, ONa, OK, OLi; R is an alkyl group in the range C1-C10 optionally including a functional group such as ketone, alcohol, ester, ether alcohol or aryl; m=1-3, n=1-10; and the molecular weight is between 1,000-150,000. The image layer may also include a coloring medium. The resist layer, which should be from about 0.5 to about 2.0 microns in thickness, comprises a material which, upon exposure to actinic radiation, changes solubility with respect to a developer in which the imager layer is also soluble. The resist layer may be **negative** working or positive working. In an important embodiment of the invention, the chemical composition and physical parameters of imaging articles particularly suited to the production of half-tone images capable of subsequent etching are disclosed. These imaging articles exhibit unexpectedly excellent exposure and development latitude accompanied by outstanding etchability.

Classifications:

International (ipc 8-9): G03C1/00 G03C1/52 G03C1/54 G03C1/60 G03C1/72 G03C1/76 G03C1/91 G03C5/48 G03F1/10 G03F1/56 G03F3/10 G03F5/14 G03F7/00 G03F7/004 G03F7/038 G03F7/09 G03F7/11 G03F7/26 G03F7/40 (Advanced/Invention); G03C1/00 G03C1/52 G03C1/72 G03C1/76 G03C1/91 G03C5/40 G03F1/10 G03F3/10 G03F5/00 G03F7/00 G03F7/004 G03F7/038 G03F7/09 G03F7/11 G03F7/26 G03F7/40 (Core/Invention)

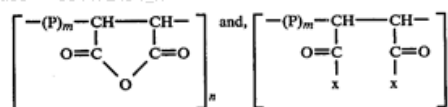
International (ipc 1-7): G03C1/00 G03C1/52 G03C1/54 G03C1/60 G03C1/68 G03C1/71 G03C1/72 G03C1/76 G03C1/80 G03C11/00 G03C5/00 G03C5/48 G03F5/14 G03F7/00 G03F7/02 G03F7/08 G03F7/26

CPC: G03F1/56 G03F3/101

European: G03F1/56 G03F3/10A

US: 430/143 430/155 430/160 430/166 430/167 430/175 430/176 430/271 430/271.1 430/293 430/300 430/325 430/326 430/5 430/533 430/534 430/535

PatBase - US4472494_A



Family:

Publication number	Publication date	Application number	Application date
AT14483 E	19850815	AT19810304217T	19810915
AU198176413 A1	19820414	AU19810076413	19810915
CA1180931 A1	19850115	CA19810385805	19810914
DE3171490 D1	19850829	DE19813171490	19810915
DK218882 A	19820514	DK19820002188	19820514
EP0048160 A1	19820324	EP19810304217	19810915
EP0048160 B1	19850724	EP19810304217	19810915
JP1045898 B4	19891005	JP19810503143T	19810915
JP57501497 T2	19820819	JP19810503143T	19810915
US4472494 A	19840918	US19820395289	19820706
WO8201085 A1	19820401	WO1981US01229	19810915

Priority:

CA19810385805 19810914 EP19810304217 19810915 US19820395289 19820706
US19800187623 19800915 WO1981US01229 19810915

Probable Assignee: NAPP SYSTEMS INC

Assignee(s): (std): NAPP SYSTEMS INC

Assignee(s): NAPP SYSTEMS USA INC ; NATSUPU SHISUTEMUZU YUU ESU EI INC ; RUBIC DOMINIC B ; BANQUE PARIBAS AS AGENT ; BOHANNON RONALD E ; HALLMAN ROBERT W ; LANGLAIS EUGENE L

Inventor(s): (std): BOHANNON R E ; BOHANNON R G ; BOHANNON RONALD E ; BOHANNON RONALD G ; HALLMAN R W ; HALLMAN ROBERT W ; LANGLAIS E L ; LANGLAIS EUGENE L ; LANGS E L ; RUBIC D B ; RUBIC DOMINIC B ; RUBIC D ; LANGLAIS E ; HALLMAN R ; BOHANNON R

Inventor(s): RW HALLMAN ; RUBITSUKU DOMINITSUU BII ; RANGURAI SU YUJIIN ERU ; HOORUMAN ROBAATO DABURYU ; BOONON RONARUDO JII ; R G BOHANNON ; R W HALLMAN ; RG BOHANNON ; D B RUBIC ; DB RUBIC ; E L LANGLAIS ; EL LANGLAIS

Agent(s): FETHERSTONHAUGH AND CO

Designated states: AT AU BE BR CH DE DK FR GB IT JP LI LU NL NO SE

Title: **PROCESS** FOR PREPARING SILICATE COATED POLYPROPYLENE FILM

Abstract: Source: US4247576A It has been found that thin oriented polypropylene film can be coated with a submicron thickness of an alkali metal silicate. The thus coated film gives excellent results when used to separate the **negative** from the liquid **photopolymer** in preparing plastic **printing plates**.

Classifications:

International (ipc 8-9): B05D3/00 B32B7/06 C08J7/06 G03F7/09

G03F7/20 G03F7/26 (Advanced/Invention);

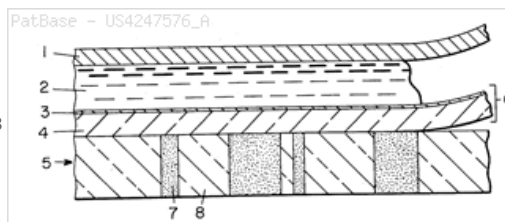
C08J7/00 G03F7/09 G03F7/20 (Core/Invention)

International (ipc 1-7): B05D3/00 B05D3/06 B32B7/06 G03F7/26

CPC: C08J7/06 C08J2323/12 G03F7/092 G03F7/2012 Y10T428/31938

European: C08J7/06 G03F7/09B G03F7/20A5 M08J323/12

US: 427/397.8 427/536 428/446 428/523 430/272.1 430/300



Family:

Publication number	Publication date	Application number	Application date
CA1148040 A1	19830614	CA19800345010	19800204
US4247576 A	19810127	US19790019942	19790309

Priority:

CA19800345010 19800204 US19790019942 19790309

Probable Assignee: MACDERMID IMAGING TECHNOLOGY INC

Assignee(s): (std): HERCULES INC

Assignee(s): KUTNER ABRAHAM ; MACDERMID IMAGING TECHNOLOGY INC

Inventor(s): (std): KUTNER ABRAHAM

Agent(s): FETHERSTONHAUGH AND CO

Title: COMPRESSABLE **PRINTING** PLATE.

Abstract: Source: EP0177302A2 A **process** of preparing compressible **printing plates** by casting a liquid **photopolymer** composition on a **negative**, placing a compressible backing sheet over the liquid **photopolymer**, exposing through the backing sheet, imaging through the **negative** and developing.

Classifications:

International (IPC 8-9): B41C1/00 B41N1/12 G03F7/09

G03F7/16 (Advanced/Invention);

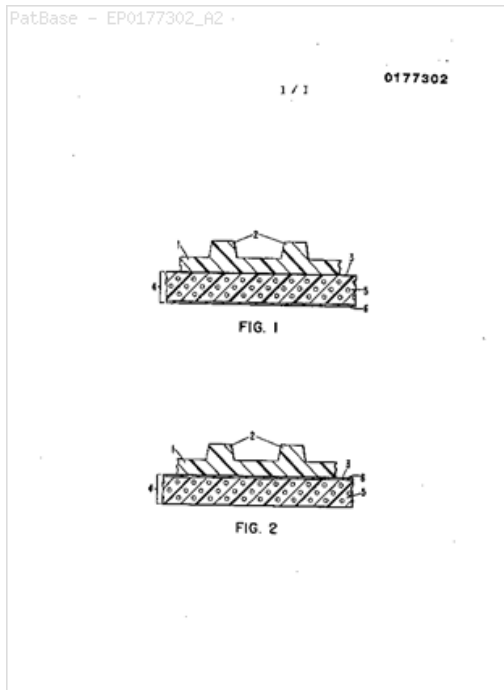
B41C1/00 (Advanced/Non-invention);

B41C1/00 B41N1/12 G03F7/09 G03F7/16 (Core/Invention)

International (IPC 1-7): B41C1/00 B41N1/12 G03F7/02 G03F7/10 G03F7/16

CPC: G03F7/09 G03F7/16

European: B41N1/12 G03F7/09 G03F7/16



Family:

Publication number	Publication date	Application number	Application date
AU198547962 A1	19860410	AU19850047962	19850927
EP0177302 A2	19860409	EP19850306908	19850927
EP0177302 A3	19860917	EP19850306908	19850927
JP61084289 A2	19860428	JP19850212745	19850927

Priority:

US19840655857 19840928

Probable Assignee: HERCULES INC

Assignee(s): (std): HERCULES INC

Inventor(s): (std): RICHARD BASIL SCHROEDER ; RICHIIYAADO BEJIRU SHIYUROODAA ; SCHROEDER RICHARD BASIL ; STARK STEPHEN KURT

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD

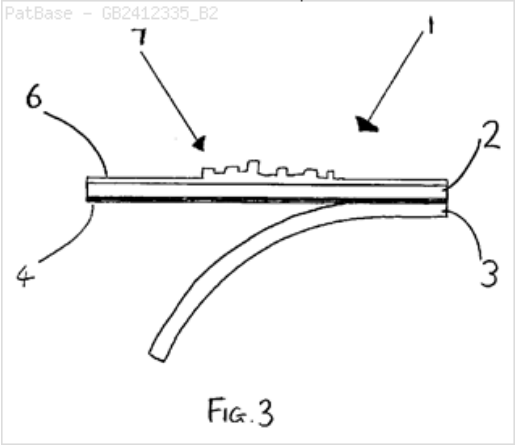
Designated states: BE DE FR GB IT NL SE

Title: BASE FILM FOR USE IN THE MANUFACTURE AND MOUNTING OF BASE **PLATES**

Abstract: Source: GB2412335A The present invention provide an improved base film 1, for use in the production and mounting of a flexographic **printing** plate 7. The base film 2, which provides a base structure on to which a cured **photopolymer** relief 6 image is bound, is usually mounted on to a **printing** press carrier means using double-sided adhesive tape. The improved base film 1 of the present invention eliminates the stage of applying the adhesive tape by providing a base film with a pre-production applied solvent acrylic adhesive 4 and thus eliminates the need for the removal of trapped air bubbles. In order to protect the adhesive layer during the rigours of the flexographic **printing** plate 7 production **process**, a release liner 3 is also provided. The adhesive may be applied to the base film sheet in strips.

Classifications:

International (IPC 8-9): B41F27/12 B41N6/02 C09J7/02 G03F1/00 G03F7/20 (Advanced/Invention); B41N6/00 (Advanced/Non-invention)
International (IPC 1-7): B41F27/12 C09J7/02
CPC: G03F7/2018 B41N6/00 B41N6/02 C09J7/0246 C09J2433/00 G03F7/2022 G03F1/0023
European: B41N6/02 C09J7/02K4 G03F7/20A6D2 G03F7/20B L41N6/00 M09J433/00



Family:

Publication number	Publication date	Application number	Application date
GB200406679 A0	20040428	GB20040006679	20040325
GB2412335 A1	20050928	GB20040006679	20040325
GB2412335 B2	20081029	GB20040006679	20040325

Priority:

GB20040006679 20040325

Probable Assignee:	PRO SHIM SUPPLIES U K LTD
Assignee(s): (std):	PRO SHIM SUPPLIES U K LTD
Assignee(s):	PRO SHIM SUPPLIES UK LTD
Inventor(s): (std):	BARKER MATTHEW
Inventor(s):	MATTHEW BARKER

Title: Photopolymerizable diepoxides containing a nitrogen heterocycle

Abstract: Source: US4124760A Diepoxides which may be photopolymerized in the presence or absence of a photosensitizer contain a group having conjugated unsaturation attached to a nitrogen heterocycle, such as a hydantoin or barbituric acid residue, forming part of an advanced diepoxide. The resultant **photopolymer** may be crosslinked by heating in the presence of a curing agent for epoxide resins.

Classifications:

International (IPC 8-9): C07D239/00 C07D303/36 C07D407/14
C08G59/00 C08G59/26 C08G59/28 (Advanced/Invention);
C08G59/00 (Core/Invention)

International (IPC 1-7): C07D233/96 C07D239/00 C07D239/62
C07D303/36 C07D405/00 C07D405/12 C07D405/14 C07D407/14
C08G59/00 C08G59/02 C08G59/14 C08G59/20 G03C1/68

CPC: C08G59/26

European: C08G59/26

US: 528/117 528/393 542/432 544/296 544/300 544/302 544/310
544/314 544/316 544/318 548/311.1 548/313.1

PatBase - CA1078839_A1

**SUBSTITUTE
REPLACEMENT**

SECTION is not Present

Cette Section est Absente

Family:

Publication number	Publication date	Application number	Application date
CA1078839 A1	19800603	CA19770282940	19770718
DE2732443 A1	19780126	DE19772732443	19770718
FR2359163 A1	19780217	FR19770022219	19770720
FR2359163 B1	19800208	FR19770022219	19770720
GB1527416 A	19781004	GB19760030100	19760720
JP53012994 A2	19780206	JP19770087222	19770720
US4124760 A	19781107	US19770815332	19770713

Priority:

GB19760030100 19760720

Probable Assignee: CIBA SPECIALTY CHEMICALS CORP

Assignee(s): (std): CIBA GEIGY AG ; CIBA GEIGY CORP

Assignee(s): CIBA SPECIALTY CHEMICALS CORP ; GREEN GEORGE E ; STARK BERNARD P ; WATERHOUSE JOHN S

Inventor(s): (std): GREEN GEORGE E ; GREEN GEORGE EDWARD DR ; JIYON SHIDONII UOOTAAHAUSU ; JIYOOJI
EDOWAADO GURIIN ; STARK BERNARD P ; STARK BERNARD PETER DR ; WATERHOUSE JOHN S ;
WATERHOUSE JOHN SIDNEY DR ; BERUNAADO PIITAA SUTAANKU

Inventor(s): EDWARD DR GREEN GEORGE ; PETER DR STARK BERNARD ; SIDNEY DR WATERHOUSE JOHN

Title: **PHOTOPOLYMER** COMPOSITIONS FOR USE IN THE PRODUCTION OF **PRINTING** RELIEFS

Abstract: Source: FR2389924A Composition **photopolymere**, element **photopolymere** comprenant une couche de la susdite composition sur un support, et procede pour produire un cliché en relief par exposition d'un tel element a une lumiere actinique au travers d'un cliché comportant une image partiellement transparente. On utilise une composition comprenant un polymere liquide a terminaisons olefiniquement non saturees, un monomere ethyleniquement non sature et des proportions efficaces d'un photoinitiateur et d'un inhibiteur de polymerisation thermique, les susdits polymere et monomere repondant a certaines specifications indiquees. Cliches en relief dont les portions non exposees sont dispersibles dans une solution aqueuse detergente et peuvent ainsi etre enlevees apres l'exposition a une lumiere actinique, le cliché en relief etant en outre dur, flexible, resilient, resistant a l'abrasion et resistant a des encres a base d'alcool. Composition **photopolymer** **PHOTOPOLYMER** element comprising a layer of said composition on a support, and **process** for producing a cliché in relief exposure of such an element is an actinic light through a cliché containing an image partially transparent. We use a composition comprising a liquid polymer terminated olefinically has not saturated, a monomer -ethylenically not saturated and effective amounts of a photoinitiator and a thermal polymerization inhibitor, the above polymer and monomer replying to certain specifications indicated. Cliches raised including non-exposed portions are dispersible in an aqueous solution detergent and can be abducted after exposure to actinic light, the relief cliché being further hard, flexible, resilient, resistant to abrasion and resistant inks based on alcohol.

Classifications:

International (IPC 8-9): C08F299/06 C08G18/67 G03F7/035 G03F7/038 (Advanced/Invention);

C08F299/00 C08G18/00 G03F7/032 G03F7/038 (Core/Invention)

International (IPC 1-7): C08F2/50 C08F291/00 C08G18/10 C08G18/83 C08L43/00 C08L53/00 G03C1/00 G03C1/68

G03C1/70 G03C1/71 G03F7/08 G03F7/10

CPC: C08F2/50 G03F7/035 C08F299/06 C08G18/671

European: C08F299/06 C08G18/67B G03F7/035

Family:

Publication number	Publication date	Application number	Application date
AU197835735 A1	19791108	AU19780035735	19780503
BE866688 A4	19781103	BE19780187378	19780503
BR7802777 A	19790116	BR19780002777	19780503
DE2818455 A1	19781109	DE19782818455	19780427
DK195078 A	19781105	DK19780001950	19780503
ES469410 A1	19790401	ES19780469410	19780503
ES469410 A2	19790401	ES19780469410	19780503
FR2389924 A2	19781201	FR19780012202	19780425
GB1598894 A	19810923	GB19780017476	19780503
IT1108811 A	19851209	IT19780022983	19780503
IT7822983 A0	19780503	IT19780022983	19780503
JP53137132 A2	19781130	JP19780052394	19780502
NL7804729 A	19781107	NL19780004729	19780503
SE7805122 A	19781105	SE19780005122	19780503
ZA7802548 A	19790425	ZA19780002548	19780503

Priority:

ES19760452982 19761104 US19770793687 19770504

Probable Assignee: HERCULES INC

Assignee(s): (std): HERCULES INC ; HERCULES INCORPARATED

Assignee(s): HERCULES INC TE WILMINGTON DELAWARE VER S ; HERCULES INC TE WILMINGTON DELAWARE VER ST V AM ; HERCULES INC TE WILMINGTON DELAWARE VERSTVAM

Inventor(s): (std): POHL R ; POHL R L ; POHL R L R ; POHL RUDOLF LEROY ; POHL RUDOLPH LEROY ; RUDORUFU RIROI POORU

Inventor(s): LEROY POHL RUDOLPH ; R L POHL ; RUDOLF LEROY POHL

Title: PRESENSITIZED LIGHT-SENSITIVE LETTERPRESS **PRINTING** MAKEREADY

Abstract: Source: US3703362A ABSTRACT OF THE DISCLOSURE

Novel presensitized light-sensitive makeready sheet material for letterpress **printing** is provided. This sheet material is comprised of a flexible backing overlaid in ascending order with a thermoexpandable layer, a light-sensitive diazo resin layer, and an outer layer of a pigmented, water-insoluble, solvent-softenable polymeric compound. FIELD OF THE INVENTION This invention relates to the art of makeready for letterpress **printing**, especially as related to letterpress **printing** wherein **photopolymer** relief **printing plates** are utilized. B

Classifications:

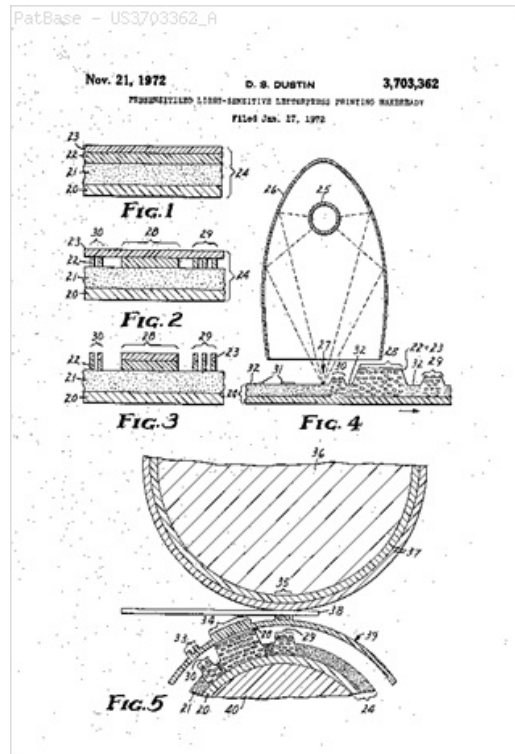
International (IPC 8-9): B41M9/00 B41M9/04 B41N1/00 G03C11/00 G03C5/00 G03F7/095 (Advanced/Invention); B41M9/00 B41N1/00 G03C11/00 G03C5/00 G03F7/095 (Core/Invention)

International (IPC 1-7): B41F29/02 B41F29/08 B41M5/14 B41M9/04 B41N3/00 C08J9/04 G03C1/52 G03C11/00 G03C5/00 G03F7/00 G03F7/08

CPC: Y10S430/106 B41M9/04 G03F7/095

European: B41M9/04 G03F7/095

US: 101/401.3 430/155 430/160 430/162 430/270.1 430/271.1 430/273.1 430/294 430/300 430/306 430/325 430/328 430/905 96/3.8.2 96/38.2 96/382



Family:

Publication number	Publication date	Application number	Application date
CA985944 A1	19760323	CA19720158955	19721215
DE2302463 A1	19730726	DE19732302463	19730116
DE2302463 B2	19740228	DE19732302463	19730116
DE2302463 C3	19741017	DE19732302463	19730116
FR2168405 A1	19730831	FR19730001476	19730116
FR2168405 B1	19790223	FR19730001476	19730116
GB1402043 A	19750806	GB19730002318	19730116
IT976907 A	19740910	IT19730047714	19730116
JP48081601 A2	19731101	JP19730007321	19730116
JP52006641 B4	19770223	JP19730007321	19730116
JP878815 C3	19770831	JP19730007321	19730116
US3703362 A	19721121	US19720218238	19720117
US3779761 A	19731218	US19720292863	19720928

Priority:

US19720218238 19720117 US19720292863 19720928

Probable Assignee: MINNESOTA MINING AND MFG

Assignee(s): (std): MINNESOTA MINING AND MFG

Assignee(s): MINNESOTA MINING AND MFG CO ; MINNESOTA MINING MFG US ; MINNESOTA MINING MFG CO US ; MINNESOTA MINING MFG ; MINNESOTA MINING MFG CO ; MINNESOTA MINING MANUFACTURING US ; MINNESOTA MINING MANUFACTURING ; DUSTIN DANIEL S ; MINNESOTA MINING AND MANUFACTURING CO SAINT PAUL MINN V ST A ; MINNESOTA MINING AND MANUFACTURING CO ST PAUL MINN V ST A ; MINNESOTA MINING AND MANUFACTURING COMPANY

Inventor(s): (std): DUSTIN DANIEL S ; DUSTIN D

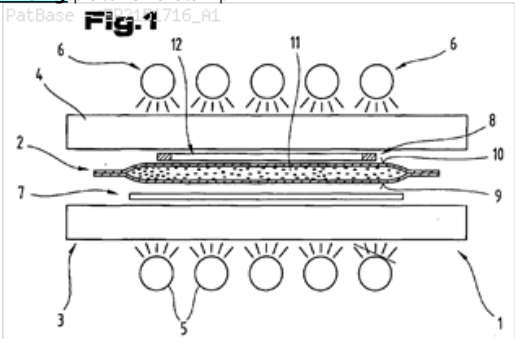
Inventor(s): DANIEL S DUSTIN ; DUSTIN DANIEL S ST PAUL MINN V ST A ; DUSTIN D US

Title: ELEMENT, IN PARTICULAR **PHOTOPOLYMER** UNIT

Abstract: The element (2) has a backing layer (10) and a covering layer (9) connected with each other to form a closed bag. A preliminary stage of plastic polymerized with electromagnetic radiation i.e. photo polymer (11), is enclosed in the bag. The covering layer is made of cast PVC, and the backing layer is made of polyester. The backing layer has coating of polymer material i.e. PVC-polyvinyl acetate-copolymer, in direct contact with the preliminary stage of plastic. The coating supports adhesion of the backing layer to the plastic formed from the preliminary stage. Independent claims are also included for the following: (1) a method for producing a relief pattern of a **printing** plate for a stamp using an element i.e. **photopolymer**-unit (2) a device for producing a relief pattern of a **printing** plate for a stamp.

Classifications:

International (IPC 8-9): B32B27/08 B41C1/10 B65D85/00 G03F7/00 G03F7/20 (Advanced/Invention); G03F7/00 G03F7/20 (Core/Invention)
CPC: G03F7/0002 B82Y10/00 B82Y40/00 G03F7/2012 G03F7/2032
European: B82Y10/00 B82Y40/00 G03F7/00A G03F7/20A5 G03F7/20B5



Family:

Publication number	Publication date	Application number	Application date
AT507137 A1	20100215	AT20080001230	20080807
AT507137 B1	20120115	AT20080001230	20080807
EP2151716 A1	20100210	EP20090010107	20090805

Priority:

AT20080001230 20080807

Probable Assignee: TRODAT GMBH

Assignee(s): (std): TRODAT GMBH

Inventor(s): (std): BRUNTON COLIN ; ROESNER ERIK E ; ROESSNER ERIK E ; VERESS ALEXANDER R

Agent(s): BURGER HANNES

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: PHOTOPOLYMERIZABLE ELEMENT COMPRISING A CONJUGATED DIACETYLENE LAYER ON THE **PHOTOPOLYMER** LAYER

Abstract: Source: US3836368A **Photopolymer printing plates** having, on top of a photosensitive layer (a) attached to a base, a thin layer (b) of a suspension of finely crystalline conjugated diacetylene compounds in a binder, which compounds change color when photopolymerized. Such **printing plates** make possible the production of positive copies of a positive transparency by producing in layer (b) an image with areas which do not transmit light by exposure to light having a wavelength of less than 320 m μ and optional fixing, and initiating photopolymerization in layer (a) by exposing it through the said image to light having a wavelength of from 320 to 450 m μ and then washing out the unexposed areas of layer (a).

Classifications:

International (IPC 8-9): B41N1/10 G03F1/00 G03F7/00 G03F7/025 (Advanced/Invention);
G03F7/025 (Core/Invention)

International (IPC 1-7): B41N G03C1/00 G03C1/68 G03C1/72 G03C1/76 G03C3/00 G03C5/00 G03C5/50 G03F7/00
G03F7/02

CPC: G03F1/68

European: G03F1/68

US: 430/270.1 430/306 430/502 96/6.9

Family:

Publication number	Publication date	Application number	Application date
BE789476 A1	19730329	BE19720122577	19720929
CH574120 A	19760331	CH19720014282	19720929
DE2149055 A1	19730405	DE19712149055	19711001
FR2156677 A1	19730601	FR19720034669	19720929
FR2156677 B3	19751017	FR19720034669	19720929
GB1401790 A	19750730	GB19720044980	19720929
JP48042801 A2	19730621	JP19720097731	19720930
NL7213246 A	19730403	NL19720013246	19720929
US3836368 A	19740917	US19720290709	19720920

Priority:

DE19712149055 19711001 US19720290709 19720920

Probable Assignee: BASF AG

Assignee(s): (std): BASF AG

Assignee(s): BASF AG DT ; BASF DT ; BADISCHE ANILIN AND SODA FABRIK A G ; BADISCHE ANILIN AND SODA FABRIK A G LUDWIGSHAFEN ; BADISCHE ANILIN AND SODA FABRIK A G LUDWIGSHAFEN AM RHEIN ALLEMAGNE ; BADISCHE ANILIN AND SODA FABRIK AG ; BADISCHE ANILIN SODA FAB ; BADISCHE ANILIN SODA FABRIK AG

Inventor(s): (std): JUN M ; JUN MONG JON DR ; PENZIEN K ; PENZIEN KLAUS DR ; WEGNER G ; WEGNER GERHARD DR

Inventor(s): WEGNER G DT ; PENZIEN K DT ; JUN M DT

Title: Shallow relief photopolymer printing plate and methods

Abstract: Source: US4115119A A shallow relief printing plate is disclosed having a polymerized layer of less than about 0.020 inch and which includes an array of small protuberances in non-image or background areas to prevent bottoming. Photopolymerizable elements, as well as processing techniques, are also disclosed for making such printing plates.

Classifications:

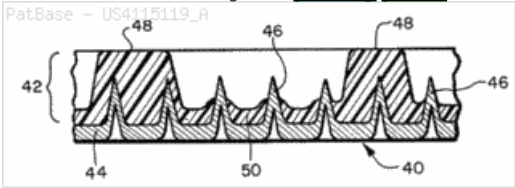
International (IPC 8-9): G03F7/20 G03F7/30 (Advanced/Invention); G03F7/20 G03F7/30 (Core/Invention)

International (IPC 1-7): G03C1/68 G03C5/00

CPC: G03F7/2022 G03F7/30

European: G03F7/20B G03F7/30

US: 101/395 101/401.1 101/467 430/273.1 430/275.1 430/306 430/396 96/35.1 96/79



Family:

Publication number	Publication date	Application number	Application date
US4115119 A	19780919	US19770761974	19770124
US4115123 A	19780919	US19770761975	19770124

Priority:

US19760695941 19760614

Probable Assignee:	NAPP SYSTEMS INC
Assignee(s): (std):	NAPP SYSTEMS INC
Assignee(s):	NAPP SYSTEMS USA INC
Inventor(s): (std):	TSUCHIDA SHOZO ; OKAI SAKUO

Title: SYSTEM FOR REGIONAL ETCHING OF HOLOGRAPHIC MICROETCHINGS, DIFFRACTION GRATINGS, KINOGRAMS, PIXELGRAMS OR OTHER OPTICAL ELEMENTS ON SHEETS

Abstract: In accordance with a first solution there is used an electroformed **printing** plate bearing microetchings in high relief. In accordance with another solution there is used for the microetching an etching unit in which: the embossing roll bears and electroformed **printing** plate bearing the regional microetchings at the same height as the other regions of the plate which are not etched, and the counterthrust roll rotates synchronously with the embossing roll and displays on its surface high reliefs in the regions designed to face the microetched regions of the **printing** plate during the etching

process.

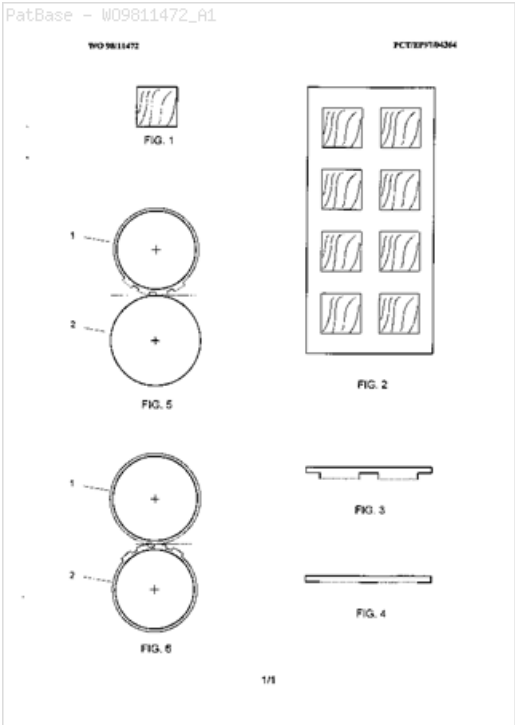
Classifications:

International (IPC 8-9): B23H9/00 G03H1/02 (Advanced/Invention); G03H1/02 (Core/Invention)

International (IPC 1-7): B29C59/02 B41D G03H1/02

CPC: G03H1/028 G03H2001/0288 G03H2001/0296 G03H2001/306

European: G03H1/02X2 S03H1/02X4 S03H1/02X6 S03H1/30T



Family:

Publication number	Publication date	Application number	Application date
AU199740146 A1	19980402	AU19970040146	19970811
IN01512CA1997 A	20160826	IN1997CA01512	19970814
IT1284507 B1	19980521	IT1996MI01866	19960911
ITMI961866 A1	19980311	IT1996MI01866	19960911
WO9811472 A1	19980319	WO1997EP04364	19970811

Priority:

IT1996MI01866 19960911 WO1997EP04364 19970811

Probable Assignee: ORLANDI RAUL MARIA

Assignee(s): (std) ORLANDI RAUL MARIA

Assignee(s): RAUL MARIA ORLANDI

Inventor(s): (std) ORLANDI RAUL MARIA

Inventor(s): RAUL MARIA ORLANDI

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CH CN CU CZ DE DK EE ES FI FR GB GE GH GR HU IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG US UZ VN ZW

Title: **PROCESS** FOR PREPARING A NITROCELLULOSE COATED POLYPROPYLENE FILM

Abstract: Source: US6010822A Polypropylene film coated with a submicron thickness of a composition comprising nitrocellulose is proposed as useful in the production of **photopolymer printing plates**. In addition to nitrocellulose, the coating composition also preferably comprises a solvent, lecithin and a wax.

Classifications:

International (IPC 8-9): G03F7/09 (Advanced/Invention);

G03F7/09 (Core/Invention)

International (IPC 1-7): B05D1/00 G03F7/11

CPC: G03F7/092 Y10T428/31888

European: G03F7/09B

US: 427/223 427/322 427/536 428/509 430/273.1

PatBase - US6010822_A

U.S. Patent Jan. 4, 2000 6,010,822

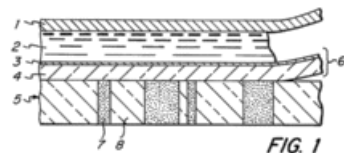


FIG. 1

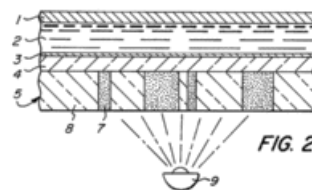


FIG. 2

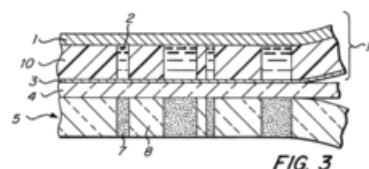


FIG. 3

Family:

Publication number	Publication date	Application number	Application date
US6010822 A	20000104	US19970982713	19971202

Priority:

US19970982713 19971202

Probable Assignee: MACDERMID INC

Assignee(s): (std): MACDERMID INC

Assignee(s): MACDERMID IMAGING TECHNOLOGY INC ; BARCLAYS BANK PLC SUCCESSOR COLLATERAL AGENT AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH AS COLLATERAL ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AGENT AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AGENT AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH FIRST LIEN COLLATERAL AGENT AG AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH SECOND LIEN COLLATERAL AGENT AG AS

Inventor(s): (std): HUANG MISTY

Title: PHOTOREACTIVE OLIGOMER COMPOSITION AND **PRINTING** PLATE

Abstract: Source: US5091287A Disclosed are novel dry, non-tacky **photopolymer** precursors or isocyanate-free urethane oligomers which are the reaction products of heat reactive phenolic resins and unsaturated monoisocyanates, e.g. a methylol containing resole and isocyanatoethyl methacrylate. The reaction product combined with a haloalkyl triazine photosensitizer and an inert organic solvent provides an excellent coating for a variety of substrates used in the **printing** and publishing industry, e.g. grained, anodized aluminum lithoplates. The presensitized lithographic **plates** can be used in aqueous alkaline based development **processes** and exhibit an increased resistance to solvent attack during the development and **printing processes**.

Classifications:

International (IPC 8-9): C08F290/00 C08F299/06 C08G18/54 C08G18/81 C09D155/00 C09D175/00 C09D175/14 G03F7/027 G03F7/028 G03F7/038 (Advanced/Invention);
C08F290/00 C08F299/00 C08G18/00 C09D155/00 C09D175/00 C09D175/14 G03F7/027 G03F7/028
G03F7/038 (Core/Invention)

International (IPC 1-7): C08F299/06 C08G18/54 C08G18/81 C09D175/14 G03F7/027 G03F7/028 G03F7/038 G03F7/30

CPC: Y10S525/92 G03F7/0388 C08G18/542 C08G18/8116 G03F7/038

European: C08G18/54B C08G18/81B4 G03F7/038 G03F7/038S

US: 430/278 430/278.1 430/284 430/284.1 430/302 430/309 430/325 522/63 522/90 525/502 525/920 526/301 528/75

Family:

Publication number	Publication date	Application number	Application date
DE69113500 D1	19951109	DE19916013500	19910410
DE69113500 T2	19960515	DE19916013500T	19910410
EP0452110 A1	19911016	EP19910303161	19910410
EP0452110 B1	19951004	EP19910303161	19910410
JP4331277 A2	19921119	JP19910071482	19910404
US5091287 A	19920225	US19900506905	19900410

Priority:

US19900506905 19900410

Probable Assignee: MINNESOTA MINING AND MFG

Assignee(s): (std): MINNESOTA MINING AND MFG ; 3M CO

Assignee(s): MINNESOTA MINING AND MANUFACTURING CO SAINT PAUL MINN US ; MINNESOTA MINING AND MANUFACTURING COMPANY ; MINNESOTA MINING AND MFG CO ; MINNESOTA MINING AND MFG CO 3M ; MINNESOTA MINING AND MFG CO A CORP OF DELAWARE ; MINNESOTA MINING AND MFG CO It 3M gt

Inventor(s): (std): DANIERU SOUMU DASUTEIN ; DUSTIN DANIEL S ; DUSTIN DANIEL S C O MINNESOTA

Inventor(s): DUSTIN DANIEL S C O MINNESOTA MINING AND ; DUSTIN DANIEL S C O MINNESOTA MINING AND ST PAUL M

Designated states: BE DE FR GB IT

Title: Developer compositions for lithographic **printing plates** with benzyl alcohol, potassium toluene sulfonate and sodium (xylene or cumene) sulfonate

Abstract: Source: US4980271A A composition capable of removing the non-image areas of an imagewise exposed photographic element, consisting essentially of in admixture: (a) from at least about 5 percent to about 30 percent by weight benzyl alcohol; and (b) from about 1 percent to about 20 percent by weight of one or more compounds selected from the group consisting of sodium xylene sulfonate and sodium cumene sulfonate; and (c) from about 5 percent to about 40 percent by weight potassium toluene sulfonate; and (d) water.

Classifications:

International (IPC 8-9): G03F7/26 G03F7/30 G03F7/32 (Advanced/Invention);
G03F7/30 G03F7/32 (Core/Invention)

International (IPC 1-7): G03C1/71 G03C5/00 G03C5/18 G03C5/24 G03C5/29 G03F7/00 G03F7/26 G03F7/32

CPC: G03F7/32

European: G03F7/32

US: 430/154 430/175 430/192 430/302 430/309 430/325 430/331

Family:

Publication number	Publication date	Application number	Application date
CA1293406 A1	19911224	CA19860515169	19860801
DE3678766 D1	19910523	DE19863678766	19860717
EP0212263 A2	19870304	EP19860109804	19860717
EP0212263 A3	19870902	EP19860109804	19860717
EP0212263 B1	19910417	EP19860109804	19860717
JP62034156 A2	19870214	JP19860182866	19860805
US4980271 A	19901225	US19850762602	19850805
US5066568 A	19911119	US19900587210	19900924

Priority:

CA19860515169 19860801 US19850762602 19850805 US19900587210 19900924

Probable Assignee: HOECHST CELANESE CORP

Assignee(s): (std): HOECHST CO AMERICAN ; HOECHST CELANESE CORP ; HSIEH SHANE ; HOECHST CELANESE CORP

Assignee(s): HOECHST CELANESE CORP SOMERVILLE N J US ; AMERICAN HOECHST CORP ; MITCHELL WAYNE A

Inventor(s): (std): HSIEH SHANE ; MITCHELL WAYNE A ; UEIN EI MITSUCHIERU ; SHIEEN HIJII

Inventor(s): MITCHELL WAYNE A BOUND BROOK NEW JERSEY 08805 US ; HSIEH SHANE BRIDGEWATER NEW JERSEY 08807 US

Agent(s): FETHERSTONHAUGH AND CO

Designated states: DE FR GB NL

Title: **PROCESSING** FO **PRINTING PLATES**

Abstract: Source: GB1523877A 1523877 Developing photo-sensitive polymers VICKERS Ltd 19 Nov 1975 [19 Sept 1974] 40949/74 Heading G2C A developer for an exposed photo-sensitive polymer layer includes a lactam of the Formula: in which n is 0 or an integer of from 1 to 9; h is a hydrogen atom, or an alkyl, alkenyl, aralkyl, aryl or acyl group; and R' and R'' are each a hydrogen atom or an alkyl or aryl group, together with a wetting agent and/or a colourant. The colourant is preferably an organic solvent soluble dye. Preferred lactams are 1-methyl-2-pyrrolidinone, 1-butyl- 2-pyrrolidinone, 1-cyclohexyl-2-pyrrolidinone, 2-pyrrolidinone, 1-vinyl-2-pyrrolidinone and #-caprolactam. The developer may further include (i) an acid e.g. phosphoric, hydrochloric [or] sulphuric, acetic, lactic, glycolic or a-pentenoic acid (ii) an inert diluent e.g. water, ethanolamine or 2-ethoxy ethanol and (iii) an additional organic solvent which dissolves the polymer e.g. tetrahydrofurfuryl alcohol, 2-methoxy ethyl acetate or ?-butyrolactone. The light-sensitive polymer is **negative** working containing groups of the structure -CH=CH-CO- e.g. polyvinyl cinnamate, or a cinnamoylated epoxy resin.

Classifications:**International (IPC 8-9):** G03F7/30 G03F7/32

G03G9/16 (Advanced/Invention);

G03F7/30 (Advanced/Non-invention);

G03F7/30 G03F7/32 (Core/Invention)

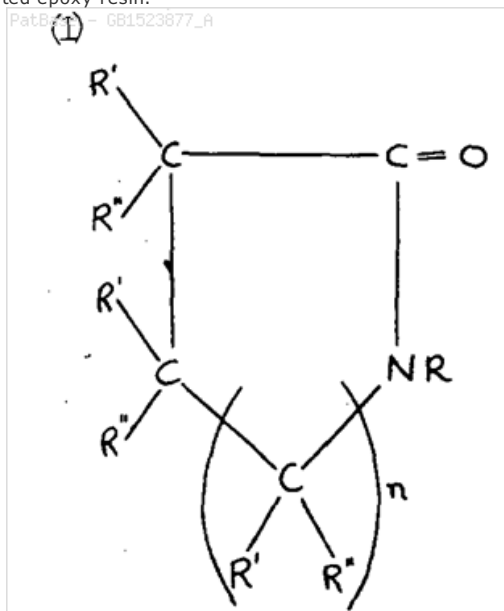
International (IPC 1-7): B41C1/10 B41M B41N1/08 B41N3/08

C07D207/26 C08G G03C1/68 G03C5/24 G03F7/00 G03F7/02

G03F7/10 G03F7/20 G03G9/00 G03G9/16 H05K

CPC: G03F7/325 G03F7/32**European:** G03F7/32B

PatBase - GB1523877_A

**Family:**

Publication number	Publication date	Application number	Application date
AT342626 B	19780410	AT19750007209	19750919
AT720975 A	19770815	AT19750007209	19750919
AU197584975 A1	19770324	AU19750084975	19750918
BE833591 A1	19760116	BE19750160176	19750919
BR7506029 A	19760803	BR19750006029	19750918
CA1061154 A1	19790828	CA19750235784	19750918
CH604216 A	19780831	CH19750012186	19750919
CS205008 B2	19810430	CS19750006333	19750918
DD125502 C	19770420	DD19750188453	19750919
DE2541950 A1	19760408	DE19752541950	19750919
DK418875 A	19760320	DK19750004188	19750918
ES441129 A1	19770401	ES19750441129	19750919
FI752611 A	19760320	FI19750002611	19750918
FR2285636 A1	19760416	FR19750028872	19750919
FR2285636 B1	19810925	FR19750028872	19750919
GB1523877 A	19780906	GB19740040949	19740919
IE41719 B	19800312	IE19750002057	19750919
IE41719 L	19760319	IE19750002057	19750919
IT1042707 A	19800130	IT19750027434	19750919
JP51058104 A2	19760521	JP19750113578	19750919
KE2945 A	19790412	KE19790002945	19790402
LU73430 A	19760413	LU19750073430	19750919
NL7510979 A	19760323	NL19750010979	19750918
NL7510979 A1	19760323	NL19750010979	19750918
NO753182 A	19760322	NO19750003182	19750918
PL111427 B1	19800830	PL19750183442	19750919
SE7510307 A	19760322	SE19750010307D	19750916
SE7510307 L	19760322	SE19750010307	19750916
ZA7505870 A	19760825	ZA19750005870	19750915

Priority:

GB19740040949 19740919

Probable Assignee: VICKERS LTD**Assignee(s):** (std): VICKERS LTD**Assignee(s):** VICKERS LTD GB ; WATKINSON LEONARD J ; BITSUKAASU LTD ; LAWSON LESLIE E ; VICKERS LIMITED ; VICKERS LIMITED TE LONDON**Inventor(s):** (std): LAWSON L ; LAWSON L E ; LAWSON LESLIE E ; LAWSON LESLIE EDWARD ; LAWSON LESLIE EDWARD ORPINGTON ; REONAAO JEMUZU WATOKINSON ; RESURII EDOWAADO ROOSON ; WATKINSON L ; WATKINSON L J ; WATKINSON LEONARD J ; WATKINSON LEONARD JAMES**Inventor(s):** EDWARD LAWSON LESLIE ; JAMES WATKINSON LEONARD ; WATKINSON LEONARD J GB ; LEONARD

JAMES WATKINSON ; LEONARD JAMES WATKINSON AND LESLIE EDWARD LAWSON ; LESLIE EDWARD
LAWSON ; LAWSON LESLIE E GB

Title: MULTILAYER, SHEET-LIKE, PHOTSENSITIVE RECORDING MATERIAL

Abstract: Source: US4946758A In a photosensitive recording material comprising (A) a photopolymerizable relief-forming layer which can be developed with liquid developer after imagewise exposure to actinic light, (B) a top layer which consists of polymers forming films of high tensile strength, adheres firmly to the photopolymerizable relief-forming layer (A) and is soluble or swellable in the liquid developers and (C) a cover sheet which can readily be peeled off from the top layer (B), the top layer (B) contains specific tertiary amines and/or amides and/or specific quaternary ammonium salts of the type defined in more detail in the claims. Photopolymerized **printing plates**, relief **plates** or photoresists are produced by a **process** in which this recording material is used.

Classifications:

International (IPC 8-9): G03F7/00 G03F7/004 G03F7/09

G03F7/11 (Advanced/Invention);

G03F7/00 G03F7/004 G03F7/09 G03F7/11 (Core/Invention)

International (IPC 1-7): G03C1/00 G03C1/82 G03F7/00 G03F7/02

G03F7/09 G03F7/10 G03F7/11 G03F7/30

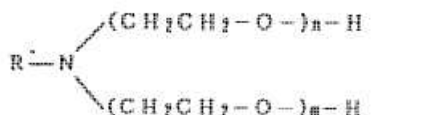
CPC: Y10S430/162 G03F7/092

European: G03F7/09B

US: 430/259 430/262 430/263 430/271 430/271.1 430/273

430/273.1 430/325 430/327 430/961

PatBase - JP1154138_A2



Family:

Publication number	Publication date	Application number	Application date
DE3736980 A1	19890518	DE19873736980	19871031
DE3851126 D1	19940922	DE19883851126	19881025
EP0316618 A2	19890524	EP19880117696	19881025
EP0316618 A3	19910320	EP19880117696	19881025
EP0316618 B1	19940817	EP19880117696	19881025
JP1154138 A2	19890616	JP19880273378	19881031
US4946758 A	19900807	US19880264893	19881031
US5035981 A	19910730	US19900475802	19900206

Priority:

DE19873736980 19871031 DE19883851126 19881025 US19880264893 19881031

Probable Assignee: BASF AG

Assignee(s): (std): BASF AG

Assignee(s): BASF AG 67063 LUDWIGSHAFEN DE ; BASF AKTIENGESSELLSCHAFT

Inventor(s): (std): HERUMUUTO BATUHA ; HORUSUTO KOTSUHO ; KAARUURUDORUFU KURUTSU ; KOCH HORST ; KOCH HORST DR ; BACH HELMUT ; BACH HELMUT DR ; KURTZ KARL RUDOLF ; KURTZ KARL RUDOLF DR ; TELSER THOMAS ; TELSER THOMAS DR ; TOOMASU TERUZAA

Inventor(s): TELSER THOMAS DR D 6700 LUDWIGSHAFEN DE ; KURTZ KARL RUDOLF DR D 6900 HEIDELBERG DE ; BACH HELMUT DR D 6704 MUTTERSTADT DE ; KOCH HORST DR D 6718 GRUENSTADT DE

Designated states: BE DE FR GB IT NL SE

Title: FLEXOGRAPHIC **PRINTING PLATES** PREPARED BY PHOTOPOLYMERISING PLATE COATING THROUGH **NEGATIVE**

Abstract: Source: DE19548807A1 A method for the preparation of moulds used in flexographic **printing** comprises: (a) a photopolymerisable **printing** plate is exposed to actinic radiation through a **negative** in order to form an image on the plate; (b) the **negative** is removed; and (c) non-photopolymerised material is washed off the plate. Prior to laying the **negative** on the plate, a solution comprising a solvent (mixture) and at least one film-forming binder polymer is used to treat the side of the **negative** facing the plate, and then the solvent is removed by evaporation.

Classifications:

International (IPC 8-9): G03F1/00 G03F1/14 (Advanced/Invention);

G03F7/115 (Advanced/Non-invention);

G03F1/14 (Core/Invention);

G03F7/09 (Core/Non-invention)

International (IPC 1-7): G03F1/14 G03F7/00 G03F7/032 G03F7/09

CPC: G03F7/2014 G03F7/115

European: G03F1/14 S03F7/115

Family:

Publication number	Publication date	Application number	Application date
DE19548807 A1	19970703	DE19951048807	19951227

Priority:

DE19951048807 19951227

Probable Assignee: DU PONT DEUTSCHLAND

Assignee(s): (std): DU PONT DEUTSCHLAND

Assignee(s): DU PONT DE NEMOURS DEUTSCHLAND GMBH ; DU PONT DE NEMOURS DEUTSCHLAND GMBH 61352 BAD HO ; DU PONT DE NEMOURS DEUTSCHLAND GMBH 61352 BAD HOMBURG DE

Inventor(s): (std): DREHER MARTIN L ; DUDEK DIETMAR DR

Inventor(s): DUDEK DIETMAR DR 63225 LANGEN DE ; DREHER MARTIN L 63500 SELIGENSTADT DE

Title: System for exposing **printing plates**

Abstract: Source: DE3144738A1 A system exposes large-area photopolymeric **printing plates**, in particular for **printing** newspapers, with the aid of a plurality of exposure devices which are each equipped with a row of parallel UV fluorescent lamps as light source underneath a copying frame. Situated in the copying frame is a format-filling glass plate on which the **negative** image carrier with the **printing** plate on top of it can be placed for the exposure operation. Two similar exposure devices are mechanically interconnected and arranged side by side, and arranged between the exposure devices (1, 2) for the presensitization of the photopolymeric **printing** plate is a holding device for receiving the **printing plates** in a vertical plane and at a defined distance from at least one light source.

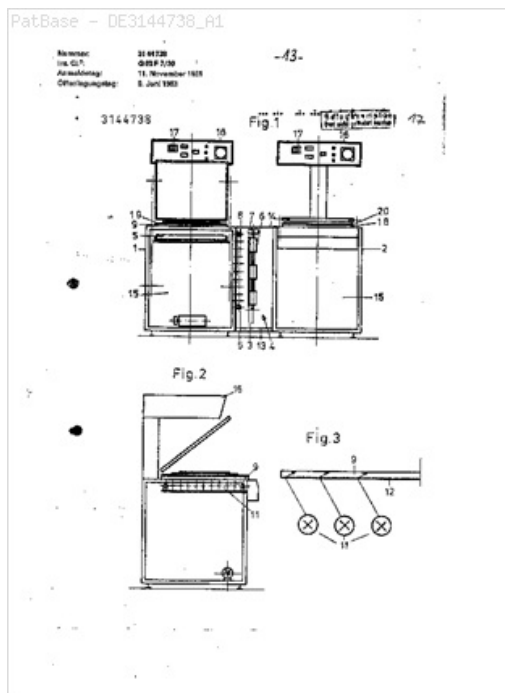
Classifications:

International (IPC 8-9): G03F7/20 (Advanced/Invention);
G03F7/20 (Core/Invention)

International (IPC 1-7): G03F7/20

CPC: G03F7/2022

European: G03F7/20B



Family:

Publication number	Publication date	Application number	Application date
DE3144738 A1	19830609	DE19813144738	19811111
DE3144738 C2	19840405	DE19813144738	19811111

Priority:

DE19813144738 19811111

Probable Assignee: STAUB GMBH WILHELM

Assignee(s): (std): STAUB GMBH WILHELM

Assignee(s): WILHELM STAUB GMBH ; WILHELM STAUB GMBH 6078 NEU ISENBURG DE

Inventor(s): (std): WEIS HELMAR

Inventor(s): WEIS HELMAR 6115 MUENSTER DE

Title: RELIEF LITHOGRAPHIC **PLATES** AND PHOTSENSITIZING SOLUTIONS

Abstract: Source: US3677755A ABSTRACT OF THE DISCLOSURE A photosensitizing solution having a viscosity of about 5 to 150 centipoises at 20 degrees C. comprising: (I) a photopolymerizable component comprising (A) an unsaturated polyester having a fusing point above 100 degrees C. containing in the molecule at least one segment (a) selected from the group consisting of the segment (1) of the formula: R_1-O- (wherein represents an alkylene group having 2 to 4 carbon atoms; x is 2 to 100) and the segment (2) of the formula: $o-o-I(CH_2)_y-O-\text{Ar}-O-Er-C-O-j-$ (wherein R_2 represents a member selected from the group consisting of $o-o$, o , and naphthylene group; y is 2 to 4; z is 1 to 10; and w is 1 to 4) and the segment (b) corresponding to the residue of an unsaturated dicarboxylic acid; (B) about 10 to 150 parts by weight, based upon 100 parts by weight of said unsaturated polyester (A), of at least one ethylenically unsaturated monomer, different from the unsaturated polyester polymer (A); and (C) about 0.01 to 5 parts by weight, based upon 100 parts by weight of said unsaturated polyester, of a photopolymerization initiator; (II) at least one solvent selected from the group consisting of chlorinated aliphatic hydrocarbons, brominated aliphatic hydrocarbons, ketones, cyclic ethers and pyridine, said solvent having a relative drying velocity of 500 to 10,000. This photosensitizing solution is coated in a thickness between 10 to 200 Å on a support and exposed to actinic light through an image transparency. Then, the non-exposed area is removed and the surface is treated with a desensitizing agent to give a relief lithographic plate. However, the adhesive strength and abrasion of the image area according to said lithographic **plates** and the **plates** from said azo resin or azido resin sensitizing solutions are low and at most 50,000 to 60,000 5 copies may be produced from a single plate. Further, as the thickness of the image area of such **plates** are in the range of 5 to 10 Å after etching or development, the clearness and accuracy of **prints** are remarkably lost. Therefore deep-etch planoplates which substantially avoid 10 such disadvantages have an advantage over these **plates** in spite of the complicated **process** for preparing such. As presensitized **plates**, "Riston" (trademark by E. I. du Pont de Nemours & Co.) and "Kontrol Plate" (trademark by Ball Brothers Co.) produced from a **photopolymer**-15 type photopolymerizable component are on sale. However, the thickness of photopolymerizable layer of these presensitized **plates** are the same as that of the conventional ones from a diazo resin sensitizing solution. It is an object of this invention to provide a novel 20 photosensitizing solution which is particularly useful in the production of relief lithographic **plates**. Another object of this invention is to provide a novel relief lithographic plate which substantially avoids the difficulties of prior art relief lithographic **plates**. 25 Other and additional objects of this invention will become apparent from a consideration of this entire specification and the claims. In accord with and fulfilling these objects, one aspect of this invention resides in a photosensitizing solution 30 comprising: (I) a photopolymerizable component containing (A) an unsaturated polyester having a fusing point above 100 degrees C. comprising a polycondensation reaction product of at least one member (a) selected from the group consisting 35 of compounds (1) of the formula: $HO-R_1-O-H$ (wherein R_1 represents alkylene group having 2 to 4 carbon atoms; x is 2 to 100) and compounds (2) of the formula: $r-O-(CH_2)_y-O-C(=O)-K_2-C(=O)-j-$ (wherein R_2 represents a member selected from the group consisting of $o-o$, o , and naphthylene group; y is 2 to 4; z is 1 to 10; and w is 1 to 4) and

Classifications:

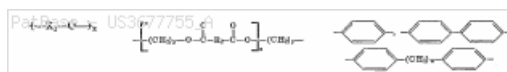
International (IPC 8-9): G03F7/032 (Advanced/Invention);
G03F7/032 (Core/Invention)

International (IPC 1-7): G03C1/68 G03C5/00

CPC: G03F7/032

European: G03F7/032

US: 430/271.1 430/275.1 430/278.1 430/279.1 430/281.1 430/283.1 430/285.1 430/325 96/351

**Family:**

Publication number	Publication date	Application number	Application date
US3677755 A	19720718	US19690853948	19690828

Priority:

US19690853948 19690828

Probable Assignee: ASAHI CHEMICAL IND

Assignee(s): (std) ASAHI CHEMICAL IND ; BERRIE A GB

Assignee(s): ASAHI KASEI KOGYO KK

Inventor(s): (std) FUKUI HISAAKI ; FUCHI YOSHIKANE ; ARAKI TAKETOSHI

Inventor(s): HISAAKI FUKUI ; TAKETOSHI ARAKI ; YOSHIKANE FUCHI

Title: Apparatus for exposing photopolymeric materials

Abstract: Source: DE3207903A1 The invention relates to an apparatus for exposing large-area photopolymeric materials to produce **printed** circuit boards or **printing plates** for **printing** newspapers or the like with the aid of a plurality of exposure devices which are each equipped with a row of UV fluorescent lamps as light source arranged underneath a copying frame. Arranged in the copying frame is a format-filling glass plate on which the **negative** image carrier can be laid with the **printing** plate on top for the exposure operation. The glass plate can be covered by a copying frame cover and a device is also provided for lifting exposed **printing plates** and delivering them to an adjacent development machine. The latter device has transfer arms which can be swivelled around an axis and said axis is arranged in the upper region of the back of the exposure device. Each device also has two mutually parallel transfer arms in each case. Each transfer arm is of L-shape construction, the pivot point being arranged at the end of the short limb.

Classifications:

International (IPC 8-9): G03B27/04 G03F7/20 (Advanced/Invention);

H05K3/00 (Advanced/Non-invention);

G03B27/02 G03F7/20 (Core/Invention);

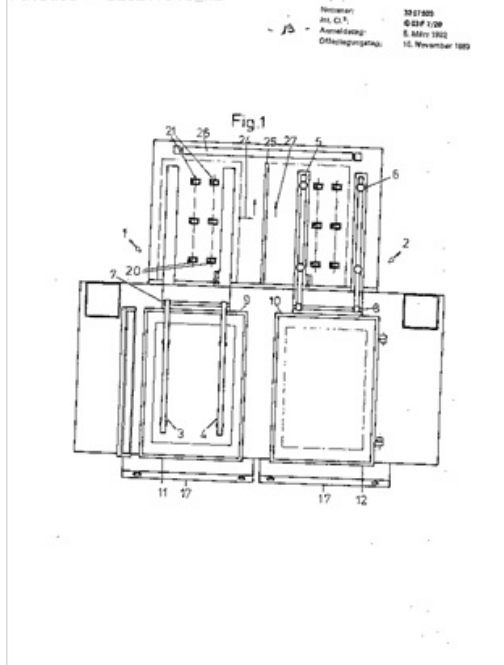
H05K3/00 (Core/Non-invention)

International (IPC 1-7): G03B27/04 G03F7/20

CPC: G03B27/04 G03F7/2014 H05K3/0082

European: G03B27/04 G03F7/20A6 T05K3/00N4

PatBase - DE3207903_A1



Family:

Publication number	Publication date	Application number	Application date
DE3207903 A1	19831110	DE19823207903	19820305
DE3207903 C2	19850718	DE19823207903	19820305

Priority:

DE19823207903 19820305

Probable Assignee: STAUB GMBH WILHELM

Assignee(s): (std): STAUB GMBH WILHELM

Assignee(s): WILHELM STAUB GMBH ; WILHELM STAUB GMBH 6078 NEU ISENBURG DE

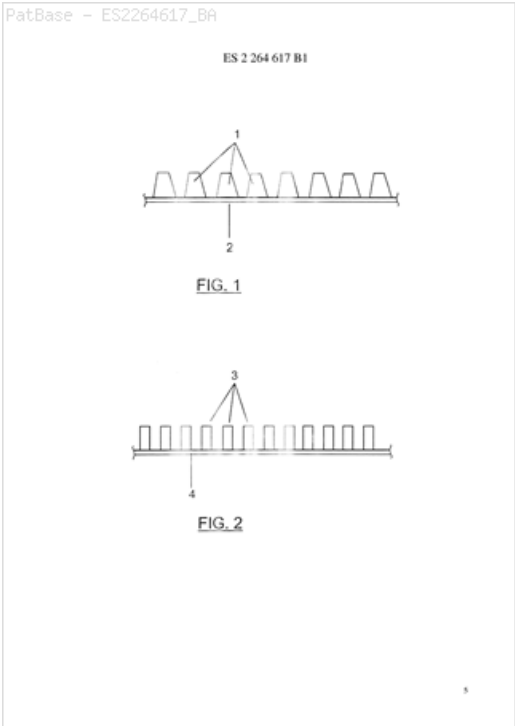
Inventor(s): (std): DIEDRICH KLAUS ; WEIS HELMAR

Inventor(s): WEIS HELMAR 6115 MUENSTER DE ; DIEDRICH KLAUS 6074 ROEDERMARK DE

Title: PROCESO DE CONFORMACION DE ROTULOS DE SENALIZACION DEL TIPO DE LOS QUE UTILIZAN ESCRITURA EN ALTORRELIEVE CENTRADO EN EL TRAZO Y ESCRITURA "BRAILLE"

Abstract: The method involves combining two **plates** using a patch or similar material to form a label. One of the **plates** is **printed** with texts or graphical forms, while the other plate is made of **photopolymer** transparent material for displaying the **printed** texts or graphical forms. The plate with texts or graphical forms is also engraved with Braille symbols in corresponding positions coinciding with the texts or graphical forms. The Braille symbols are formed using UV light, and formed on the surface of the support base for projection.

Classifications:
International (IPC 8-9): B41M3/16 G09B21/00
G09B21/02 (Advanced/Invention);
B41M3/00 G09B21/00 (Core/Invention)
CPC: B41M3/16 G09B21/00 G09B21/02
European: B41M3/16 G09B21/00 G09B21/02



Family:

Publication number	Publication date	Application number	Application date
ES2264617 AA	20070101	ES20040002743	20041110
ES2264617 BA	20071116	ES20040002743	20041110

Priority:

ES20040002743 20041110

Probable Assignee: IBARRA ARZA JON IMANOL

Assignee(s): (std): IBARRA ARZA JON IMANOL

Inventor(s): (std): CHAPERO MEDIAVILLA JUAN ANTONI ; IBARRA ARZA JON IMANOL

Inventor(s): CHAPERO MEDIAVILLA JUAN ANTONIO

Title: PRESENSITIZED **PLATES**

Abstract: Source: GB1409015A 1409015 Photo-polymerizable materials BADISCHE ANILIN - and SODA - FABRIK A G 18 Jan 1973 [19 Jan 1972] 2619/73 Heading G2C. A photopolymerizable material comprises (i) a metal support which may be mechanically and/or chemically treated or coated with a primer, (ii) a layer of 50-98 percent by weight of a polyamide and 2-50 percent by weight of a curable phenolic resin having a M.W. of less than 10,000 optionally admixed with a minor amount of an epoxy resin or an aminoplast, either having a M.W. of less than 1,000 and the layer being cured by heating between 80° and 300°C and (iii) a photo-polymerizable layer of 50- 90 percent by weight of a polyamide, 10-50 percent by weight of a monomer containing at least 2 ethylenically unsaturated double bonds, a photo-initiator and optionally containing up to 30 percent by weight of monomer of a monomer containing only 1 double bond and, optionally, (iv) a transparent cover sheet. Layer (ii) may contain pigments such as iron oxide or lead-chromate and act as an anti-halation layer but its primary function is to ensure adhesion between the support and layer (iii) which is laminated to layer (ii). The support may be aluminium or steel which is coated with tin on the opposite side to layer (ii). The material is imagewise exposed and developed to remove the unexposed areas of layer (iii) to produce a **printing** plate; layer (ii) being unaffected by development. The primer may be a polyester mixed with a di-isocyanate which is heated to cure it. Layer (iii) may contain metal complex, phthalocyanine or indigoid dyes.

Classifications:

International (IPC 8-9): B41D7/00 G03F7/00 G03F7/032 G03F7/037 G03F7/09 G03F7/11 (Advanced/Invention);

B41D7/00 G03F7/00 G03F7/032 G03F7/09 G03F7/11 (Core/Invention)

International (IPC 1-7): B41N1/00 B41N1/12 G03C1/68 G03C1/72 G03C1/76 G03C1/94 G03F7/02 G03F7/08

CPC: G03F7/037 G03F7/11

European: G03F7/037 G03F7/11

Family:

Publication number	Publication date	Application number	Application date
AT321955 B	19750425	AT19730000386	19730118
BE794260 A1	19730719	BE19730126638	19730119
CA1014404 A1	19770726	CA19730161340	19730116
CH582367 A	19761130	CH19730000564	19730116
DE2202357 A1	19730726	DE19722202357	19720119
DE2202357 B2	19800403	DE19722202357	19720119
DE2202357 C3	19801204	DE19722202357	19720119
FR2168577 A1	19730831	FR19730002003	19730119
FR2168577 B1	19760827	FR19730002003	19730119
GB1409015 A	19751008	GB19730002619	19730118
IT988099 A	19750410	IT19730047760	19730118
JP1061396 C3	19810831	JP19730007467	19730118
JP48082903 A2	19731106	JP19730007467	19730118
JP56001628 B4	19810114	JP19730007467	19730118

Priority:

DE19722202357 19720119

Probable Assignee: BASF AG

Assignee(s): (std): BASF AG

Assignee(s): BASF AG DT ; BASF AG 6700 LUDWIGSHAFEN ; BADISCHE ANILIN UND SODA FABRIK AG ; SRNA CHRISTIAN ; STRAUSS UDO ; FALKENSTEIN GEORG ; HOFFMANN HORST ; SABELUS GUENTHER ; BADISCHE ANILIN AND SODA FABRIK A G ; BADISCHE ANILIN AND SODA FABRIK A G LUDWIGSHAFEN ; BADISCHE ANILIN AND SODA FABRIK A G LUDWIGSHAFEN AM RHEIN ALLEMAGNE ; BADISCHE ANILIN AND SODA FABRIK AG ; BADISCHE ANILIN AND SODA FABRIK AKTIENGESellschaft ; BADISCHE ANILIN SODAFABRIK AG

Inventor(s): (std): FALKENSTEIN GEORG DR ; HOFFMANN HORST DR ; SABELUS GUENTHER DR ; SRNA CHRISTIAN DR ; STRAUSS UDO DR ; STRAUSS UDO ; SRNA CHRISTIAN ; SABELUS GUENTHER ; HOFFMANN HORST ; FALKENSTEIN GEORG

Inventor(s): FALKENSTEIN GEORG DR 6730 NEUSTADT ; SABELUS GUENTHER DR 6715 LAMBSHEIM ; STRAUSS UDO DR 6900 HEIDELBERG

Title: LACQUER EMULSION FOR LITHOGRAPHIC **PLATES** AND METHOD FOR THEIR MANUFACTURE

Abstract: Source: GB1215437A 1,215,437. Preparing lithographic **plates**. LITHOPLATE, Inc. March 13, 1969, No.13188/69. Heading G2M. [Also in Division C3] A lacquer emulsion for treating exposed lithographic **plates**, comprising a two-phase liquid emulsion including in combination (1) an aqueous phase containing a desensitizer for removing unexposed areas from said plate, and (2) a non-aqueous phase comprising as the major ingredients (a) an essentially water-insoluble solvent having a solubility of no more than 2A4 grams per 100 ml of water at room temperature and (b) a water-insoluble oleophilic resin dissolved in said solvent, said resin being of the type resistant to lithographic fountain solutions. lithographic inks, weak acids, alcohols, aliphatic hydrocarbons, and drying oils and having water absorption less than 5 percent, said resin having when dry, a Rockwell hardness of M-50 to M-100, an impact strength of one to twenty foot pounds per inch of notch, flexural strength between 1000 and 23,000 p.s.i., and tensile strength of 1000 to 13,000 p.s.i., Said non-aqueous phase being dispersed in said aqueous phase with the particle size of the resin particles being between one and five hundred microns. The desensitizer is a hydrophilic colloid e.g. gum arabic and/or carboxymethyl cellulose and an acid desensitizing agent. The aqueous phase preferably contains a solid thickener, e.g. silica. Specified resins are acrylic ester copolymers, polyvinyl formal, vinyl chlorideacetate, vinylidene chloride-acrylonitrile, polycarbonates, polystyrene, polyester, polyurethane, silicones, cellulose acetate and bisphenol A- epichlorhydrin condensates, commercial products being employed in the Examples. There are dissolved preferably in cyclohexanone. Optional additives are colourants, non-ionic surfactant and a water-miscible solvent which slows down evaporation of the organic resin solvent, particularly carbitol acetate and isophorone. The lacquers can be used on **plates** using diazo or cinnamate light-sensitive materials.

Classifications:

International (IPC 8-9): B41N3/08 (Advanced/Invention);

B41N3/00 (Core/Invention)

International (IPC 1-7): B41N3/00

CPC: B41N3/08

European: B41N3/08

Family:

Publication number	Publication date	Application number	Application date
GB1215437 A	19701209	GB19690013188	19690313

Priority:

GB19690013188 19690313

Probable Assignee: LITHOPLATE INC

Assignee(s): (std): LITHOPLATE INC

Inventor(s): (std): HATHAWAY CHARLES THOMAS ; THOMAS DANIEL CHARLES

Inventor(s): CHARLES THOMAS HATHAWAY ; DANIEL CHARLES THOMAS

Title: COATED ALUMINIUM SUBSTRATES

Abstract: Source: GB1488182A 1488182 Bonding particles to aluminium MINNESOTA MINING and MFG CO 14 Jan 1975 1574/75 Heading B2E [Also in Divisions C7 and G2] A substrate of aluminium or a substrate having an aluminium surface is coated with particulate material bonded to the aluminium by a layer of aluminium hydroxyoxide formed in situ, and the particulate material has an average size of 0.05 to 3000Å, a melting point above 150°C, and a solubility of less than 0.1 p.b.w. per 100 p.b.w. of water. The bonding layer is formed by exposing the particle coated substrate to an oxidising atmosphere containing water, e.g. by dipping in water, or exposing to steam or a watervapour saturated oxidising gas. An additive to the particles may increase their adherence. Suitable particles may be cubic, acicular, irregular or fibrous and may be organic, inorganic, photosensitive, conductive, non-conductive photoconductive (TiO₂ or ZnO) or magnetic (gamma-Fe₂O₃). Other particles specifically mentioned are: oxides of In, Si, Mg, Cr, Zr, Mn, Ca, Y, Al, Sb, Bi, Ba, Ce, V, Be; titanates of Ba, Li; ZnS; CaF₂; CaWO₄; 1, 5 dichloroanthraquinone; NaBiO₃; CdS; lead sulphide; FeS; cotton fibres; zinc rosinate; asbestos, clay e.g. bentonite; copper powder; nylon; P.T.F.E.; copper phthalocyanine; anthraquinone; kaolinite. Suitable additives are oxides of Ca, Ba, Mg, Be, Zn, NaOH, CH₃CO₂Na, NaCl, NaHSO₄, Ba(NO₃)₂, Mg(NO₃)₂, 6H₂O, Sr(NO₃)₂, Ca(NO₃)₂·4H₂O, CaF₂, CaCl₂, CaSO₄, Ca(C₂H₃O₂)₂, CaCO₃, BaCO₃, NaHCO₃, NH₄NO₃, or a mixture CaO and NaOH. The substrate is preferably Al sheet, but also includes Al alloys with Cu, Si and Mn and bases coated with Al or Al alloys e.g. plastics film on which Al is vapourdeposited. Many materials and coating conditions are specifically described (Examples 1 to 86).

Classifications:

International (IPC 8-9): C23C24/00 G03C1/77 G03C1/91

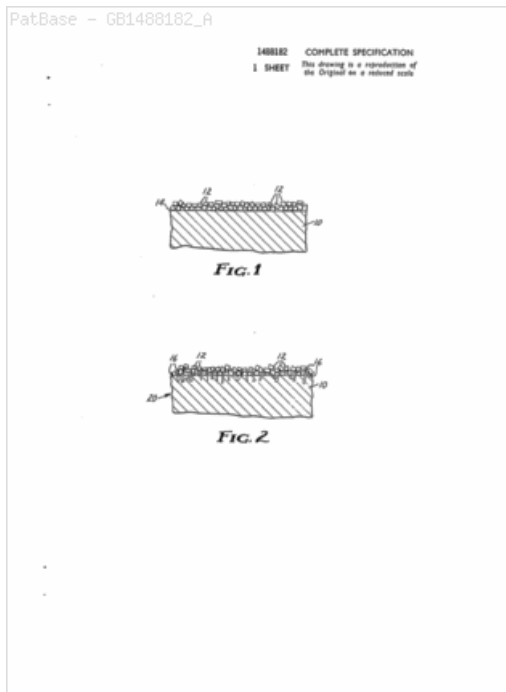
G11B5/73 (Advanced/Invention);

C23C24/00 G03C1/77 G03C1/91 G11B5/62 (Core/Invention)

International (IPC 1-7): B05D3/10 B32B5/16 C23F7/06 G03C1/94 G03G5/10

CPC: C23C24/00 G03C1/77 G03C1/91 G11B5/73

European: C23C24/00 G03C1/77 G03C1/91 G11B5/73



Family:

Publication number	Publication date	Application number	Application date
GB1488182 A	19771005	GB19750001574	19750114

Priority:

GB19750001574 19750114

Probable Assignee: MINNESOTA MINING AND MFG

Assignee(s): (std): MINNESOTA MINING AND MFG

Assignee(s): MINNESOTA MINING AND MFG CO

Title: CLEANING ARTICLES COMPRISING A CELLULOSIC FIBROUS STRUCTURE HAVING DISCRETE BASIS WEIGHT REGIONS TREATED WITH A HIGH INTERNAL PHASE INVERSE EMULSION

Abstract: Source: US6133166A Disclosed are articles useful in cleansing, and particularly wet-like cleansing wipes, which are dry until used, where fluid is released from the article. These articles comprise: a. a carrier comprising a cellulosic fibrous structure having at least a first region of relatively high basis weight that comprises an essentially continuous network and a second region of a plurality of mutually discrete regions of relatively low basis weight which are circumscribed by the high basis weight first region; and b. an emulsion applied to the carrier, where the emulsion provides fluid for cleaning when shear forces are applied to the article. The first and second regions of the cellulosic fibrous structure are disposed in a nonrandom, repeating pattern. The articles offer a number of significant advantages over prior cleaning products when in the form of wet-like cleansing wipes such as those used for cleaning of hard surfaces (e.g., floors, countertops, sinks, bathtubs, toilets, and the like). The inclusion of low basis weight regions avoids substantial fluid retention by the cellulosic fibrous substrate, which allows fluid delivery to the surface being cleaned. The articles can be used in many applications requiring the delivery of polar materials, in particular water and water-soluble or dispersible actives. These include toilet tissue, wipes for personal cleansing, such as baby wipes, as well as those for the delivery of water-soluble or dispersible antimicrobials or pharmaceutical actives.

Classifications:

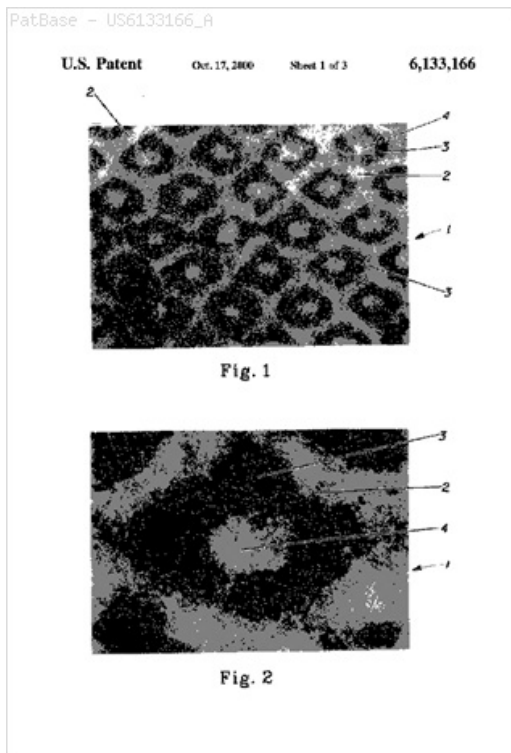
International (IPC 8-9): A47L13/16 A47L13/17 A61K7/50 A61K8/00 A61K8/02 A61K8/31 A61K8/66 A61K8/73 A61K8/92 A61K8/97 A61K8/98 A61K9/70 A61Q19/10 C11D17/04 C11D3/18 C11D3/39 C11D3/48 D21H17/27 D21H17/39 D21H19/16 (Advanced/Invention); A61K8/00 A61K8/92 C11D17/04 (Advanced/Non-invention); A47L13/16 A61K8/00 A61K8/02 A61K8/30 A61K8/72 A61K8/92 A61K8/96 A61Q19/10 C11D17/04 C11D3/18 C11D3/39 C11D3/48 (Core/Invention)

International (IPC 1-7): A01N25/34 A47L13/16 A47L13/17 A61K7/00 A61K7/50 A61K9/70 B32B9/06 C11D C11D17/04 C11D3/00 C11D3/18 C11D3/39 C11D7/24 D04H01/46 D21H17/27 D21H17/39 D21H19/16

CPC: Y10T428/31801 Y10T428/31808 Y10T428/31993 Y10T442/2016 C11D3/48 A61K8/0208 A61Q19/10 C11D3/18 C11D3/3947 C11D17/049 C11D17/04

European: A61K8/02C A61Q19/10 C11D17/04F C11D3/18 C11D3/39H C11D3/48

US: 424/402 428/484 428/484.1 428/486 428/537.5 442/61



Family:

Publication number	Publication date	Application number	Application date
AR016123 AA	20010620	AR1998P103192	19980701
AU199882776 A1	19990125	AU19980082776	19980701
BRPI9810660 A	20000829	BR1998P110660	19980701
CA2295743 AA	19991230	CA19982295743	19980701
CA2295743 C	20030422	CA19982295743	19980701
CL1998001542 A1	19990225	CL19980001542	19980701
CO5070645 A1	20010828	CO19980037133	19980701
EP0994940 A1	20000426	EP19980933011	19980701
HU0003791 AB	20010328	HU20000003791	19980701
HU0003791 AC	20011128	HU20000003791	19980701
ID29261 A	20010816	ID20000000192	19980701
IL133853 A0	20010430	IL19980133853	19980701
JP2002509463 T2	20020326	JP19990507312T	19980701
KR100334566 B1	20020503	KR19997012627	19991231
KR20010014434 A	20010226	KR19997012627	19991231
NO996582 A	20000301	NO19990006582	19991230
NO996582 A0	19991230	NO19990006582	19991230
PE101999 A1	19991201	PE19980000583	19980701
TH32757 A	19990320	TH19981002472	19980630
TR9903323 T2	20000721	TR19990003323T	19980701
TW432135 B	20010501	TW19980110651	19981007
US6133166 A	20001017	US19970886764	19970701
WO9901536 A1	19990114	WO1998US13627	19980701
ZA9805737 A	19990119	ZA19980005737	19980630

Priority:

US19970886764 19970701 WO1998US13627 19980701

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE CO CINCINNATI OHIO ;

PROCTOR AND GAMBLE CO ; BARNHOLTZ STEVEN LEE ; CABELL DAVID WILLIAM ; NISSING NICHOLAS JAMES

Inventor(s): (std): BARNHOLTZ STEVEN LEE ; BARNHOLTZ STEVENLEE ; CABELL DAVID WILLIAM ; NISSING NICHOLAS JAMES ; DAVID WILLIAM CABELL

Inventor(s): NICHOLAS JAMES NISSING ; NISSING NICHOLAS JAMES NISSING NICHOLAS JAMES ; STEVEN LEE BARNHOLTZ ; STEVENLEE BARNHOLTZ ; CABELL DAVID WILLIAM CABELL DAVID WILLIAM ; BARNHOLTZ STEVEN LEE BARNHOLTZ STEVEN LEE

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Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZW

Title: PHOTOPOLYMERIZABLE COPYING COMPOSITION AND COPYING MATERIAL PRODUCED THEREWITH

Abstract: Source: US3765898A This invention relates to a photopolymerizable copying composition comprising at least one binder, at least one polymerizable compound and, as a photoinitiator at least one compound of the general formula I in which:

Classifications:

International (IPC 8-9): B23K9/032 B23Q35/10 B23Q9/00 G03C1/72

G03F7/031 (Advanced/Invention);

G03C1/72 (Advanced/Non-invention);

B23K9/02 B23Q35/00 B23Q9/00 G03C1/72

G03F7/031 (Core/Invention)

International (IPC 1-7): B23K37/02 B23Q35/10 B41C C08F1/20

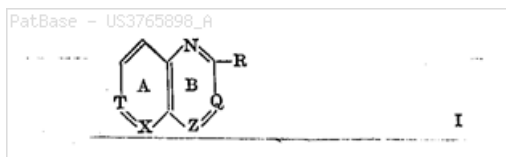
C08F2/48 C08F20/10 G03C1/00 G03C1/68 G03C1/70 G03C1/72

G03F7/02 G03F7/08

CPC: B23K9/032 B23Q9/0021 B23Q35/10 Y10S430/106 Y10S430/121 G03F7/031

European: B23K9/032 B23Q35/10 B23Q9/00C2 G03F7/031

US: 430/281.1 430/905 430/920 522/106 522/109 522/111 522/26 522/63 96/11.5P



Family:

Publication number	Publication date	Application number	Application date
AT310553 B	19731010	AT19710006959	19710809
AU197132230 A1	19730215	AU19710032230	19710811
AU207132230 A1	19730215	AU19710032230	19710811
AU451129 B2	19740725	AU19710032230	19710811
BE771108 A1	19720209	BE19710771108	19710809
BR7105137 A0	19730412	BR19710005137	19710810
CA973420 A1	19750826	CA19710120068	19710809
CS157724 B2	19740916	CS19710005697	19710805
DE2039681 A1	19720217	DE19702039681	19700810
DE2039861 A1	19720217	DE19702039861	19700811
DE2039861 B2	19730530	DE19702039861	19700811
DE2039861 C3	19731213	DE19702039861	19700811
ES394122 A1	19750916	ES19710394122	19710810
FR2102175 A1	19720407	FR19710029054	19710809
FR2102175 B1	19790817	FR19710029054	19710809
GB1357367 A	19740619	GB19710037490	19710810
JP54005293 B4	19790315	JP19710060948	19710811
NL165849 B	19801215	NL19710010562	19710730
NL165849 C	19810515	NL19710010562	19710730
NL7110562 A	19720215	NL19710010562	19710730
NO132775 B	19750922	NO19710002985	19710810
NO132775 C	19760107	NO19710002985	19710810
PL85202 P	19760430	PL19710149954	19710810
SE370582 B	19741021	SE19710010200	19710810
SE370582 C	19750130	SE19710010200	19710810
SU438204 D	19740730	SU19711692457	19710811
SU438204 T	19740730	SU19711692457	19710811
US3765898 A	19731016	US19710170311	19710809
ZA7105281 A	19720426	ZA19710005281	19710809

Priority:

AU19710032230 19710811

DE19702039681 19700810

DE19702039861 19700811

Probable Assignee: KALLE AG

Assignee(s): (std): HOECHST AG ; HOECHST FRANKFORT A D MAIN BOND AG ; HOECHST AKTIENGESELLSCHAFT ; BBC BROWN BOVERI AND CIE ; FOND ZNSOERTOV ; KALLE AG WIESBADEN DT ; KALLE AKTIENGESELLSCHAFT ; KALLE AG DT ; KALLE A G ; KALLE A G 190 196 RHEINGAUSTRASSE WIESBADEN BIEBR ; ROLAND DITRIKH ; RIKHARD BRAM ; INOSTRANTSY ZIGRID BAUER ; INOSTRANNA FA ; KALLE AG

Assignee(s): KALLE AG 6202 WIESBADEN BIEBRICH ; BAUER SIGRID ; INOSTRANNA FIRMA ; KALLE DT AG ; KALLE 6202 WIESBADEN BIEBRICH AG ; KALLE A G 190 196 RHEINGAUSTRASSE WIESBADEN BIEBRI ; KALLE A G 190 196 RHEINGAUSTRASSE WIESBADEN BIEBRICH ALLEMAGNE ; HOECHST FRANKFORT A D MAIN BONDSREPUBLIEK DUTSLAND AG ; BRAHM RICHARD ; BROWN BOVERI AND CIE AG ; HOECHST AKTIENGESELLSCHAFT FRANKFORT A D MAIN BOND ; HOECHST AKTIENGESELLSCHAFT FRANKFORT A D MAIN BONDSREPUBLIEK DUTSLAND ; DIETRICH ROLAND

Inventor(s): (std): BAUER S ; BAWER L ; BRAHM R ; DIETRICH R ; DUTRICH R ; WACHE HEINZ ; SIGRID BAUER ; ROLAND DIETRICH ; RICHARD BRAHM ; DIETRICH R DT ; BRAHM R DT ; BAUER S DT ; BAUER SIGRID DIPL CHEM DR ; DIETRICH ROLAND ; BRAHM RICHARD ; BAUER SIGRID ; DIETRICH ROLAND DIPL CHEM DR

Inventor(s): BAUER SIGRID DIPL CHEMDR ; SIGRID BAUER RICHARD BRAHM AND POLAND DIETRICH ; DIETRICH ROLAND DIPLCHEMDR ; DIETRICH ROLAND DIPL CHEMDR ; BAUER SIGRID DIPL CHEM DR 6206 HAHN ; BRAHM RICHARD 6503 WIESBADEN KASTEL ; DIETRICH ROLAND DIPL CHEM DR 6200 WIESBADEN

Title: METHOD FOR MANUFACTURING PHOTOGRAPHIC POLYMER **PRINTING PLATES** BASED ON LIQUID POLYMERIZING COMPOSITION

Abstract: Source: SU1490662A 1. Liquid-photoconductors merizuyuschuyus composition representing the a mixture wp: s. (0-Metakrildi (diethylene glycol) phthalate 79,0-89,5 triethylene-Methyl metakrnl benzoin 10.0-20.0 0.5 -1,0 poured into a transparent tape-PL of the exposure apparatus 48. electrodes are mounted in a cassette made of stainless steel, refurbished during exposure is applied a DC voltage from the high voltage generator 40 PVA-6 for generating, the electric field between the electrodes of a field strength of 100 kV / m, the exposure of the nominated through ITATION equal intervals. After exposure removed nezapolimerizo-vavshuyus composition determined sensitivity photopolymerizable composition decoupling-largest energy exposure Hj, providing receipt fotostrukturioeankogo (cuMToro) polymer thickness of 1 0 fM: (- 1 e n EXT 1, where E - irradiance cassette (for the exposure apparatus of the PL-48 is 88.2 W / m), T - Time Exposure floor, cross-linked to the thickness of 1.0 mm / 3 / used to track the value of T, 40; C., 24,2-10 J m The same liquid fotopolimerizuyuschuyus kompcz schiyu poured into a transparent tape-PL of the exposure apparatus 48 and exposed through a test **negative** UNIIPP mounted on one side of the tape 40 from within. Test film contains font, bar groups and raster elements. After removal of the unfilled composition merizovavsheys-evaluate the quality of a **photopolymer printing** plate largest **printing** elements of dimensional t - Schts - SHN where W - width of the recording element on the **negative**, um; Bd, - the width of the recording element on the finished form micron / 3 /. in the table shows the test results for the strength of the electric field x of 100-150 kV / m and exiting the specified limits. The table shows that the **processing** composition fotopolimerizuyuschey's 0 ka constant electric field during exposure allows to reduce the duration of exposure and reduce by 20-30 with 5 10-30 percent value graphic distortion. The claims 1.Sposob manufacturing photoconductors-dimensional **printed** forms based zhido chsoy fotopolimerizuyuschey's composition comprising exhibition fotopolimerizuyuschey's composition through removal of uncured film n-sites with a composition of n and t h u u a5 and with the fact that, in order to - vsh1eni **process** performance and quality of the forms by reducing the exposure time, fotopolime-rizuyuschuyus composition during ex-0 transposition exposed to a constant electric field.

Classifications:

International (IPC 8-9): G03F7/00 (Advanced/Invention)

International (IPC 1-7): G03F7/10

Family:

Publication number	Publication date	Application number	Application date
SU1490662 A1	19890630	SU19874280045	19870707

Priority:

SU19874280045 19870707

Probable Assignee: UK POLIGRAFICHESK I

Assignee(s): (std): UK NII POLIGRAFICHESKOJ PROMYS ; UK POLIGRAFICHESK I

Assignee(s): UK POLIGRAFICHESKIJ I IM IV FEDOROVA ; UK NII POLIGRAFICHESKOJ PROMY

Inventor(s): (std): LAZARENKO EDUARD E ; LAZARENKO EDUARD T ; NAZAROV VADIM D ; ONISHCHENKO TATYANA I ; ZAKHAROVA LYUBOV A

Inventor(s): ZAKHAROVA LYUBOV A SU ; ONISHCHENKO TATYANA I SU ; NAZAROV VADIM D SU ; LAZARENKO EDUARD T SU ; LAZARENKO EDUARD E SU

Title: METHOD OF PRODUCING PHOTOPOLYMERIC **PRINTING PLATES**

Abstract: Source: SU1608612A 1.Sposob photosemiconductors-manufacturing - dimensional **printing plates**, comprising exposing the **photopolymer** plate through **negative** treatment PROEX-ponirovannoy plate vymyvnyy solution to remove uncured shihs-plots, which is used as water or vodnsh sodium hydroxide solution and drying the formed relief **printing**, different in that, in order to accelerate the manufacturing **process** and improve the quality of the forms by reducing the magnitude of the distortion of the **printed** graphic relief and increase adhesion to the substrate topography, water vymyvno preactivated solution by passing it through m-The magnetic field.

Classifications:**International (IPC 8-9):** G03F7/00 (Advanced/Invention);
G03F7/00 (Core/Invention)**International (IPC 1-7):** G03F7/00

PatBase - SU1608612_A1

Параметры	Тех. решение	Изобретение	Свойства	Время	Время	Время	Время	Время	Время
1	Полупроводник	0,15-мкм	2,5	30	12	110	1	14	23,2
2	"	0,15-мкм	2,5	30	8	110	1	11	23,0
3	"	0,15-мкм	2,5	30	9	110	1	11	24,1
4	"	0,15-мкм	2,5	30	10	110	1	12	24,2
5	"	0,15-мкм	2,5	30	12	110	1	12	23,1
6	"	0,15-мкм	2,5	30	15	110	1	15	24,1
7	"	0,15-мкм	2,5	30	18	110	1	18	24,1
8	"	0,15-мкм	2,5	30	20	110	1	20	24,1
9	"	0,15-мкм	2,5	30	25	110	1	25	24,1
10	"	0,15-мкм	2,5	30	30	110	1	30	24,1
11	"	0,15-мкм	2,5	30	35	110	1	35	24,1
12	"	0,15-мкм	2,5	30	40	110	1	40	24,1
13	"	0,15-мкм	2,5	30	45	110	1	45	24,1
14	"	0,15-мкм	2,5	30	50	110	1	50	24,1
15	"	0,15-мкм	2,5	30	55	110	1	55	24,1
16	"	0,15-мкм	2,5	30	60	110	1	60	24,1
17	"	0,15-мкм	2,5	30	65	110	1	65	24,1
18	"	0,15-мкм	2,5	30	70	110	1	70	24,1
19	"	0,15-мкм	2,5	30	75	110	1	75	24,1
20	"	0,15-мкм	2,5	30	80	110	1	80	24,1
21	"	0,15-мкм	2,5	30	85	110	1	85	24,1
22	"	0,15-мкм	2,5	30	90	110	1	90	24,1
23	"	0,15-мкм	2,5	30	95	110	1	95	24,1
24	"	0,15-мкм	2,5	30	100	110	1	100	24,1
25	"	0,15-мкм	2,5	30	105	110	1	105	24,1
26	"	0,15-мкм	2,5	30	110	110	1	110	24,1
27	"	0,15-мкм	2,5	30	115	110	1	115	24,1
28	"	0,15-мкм	2,5	30	120	110	1	120	24,1
29	"	0,15-мкм	2,5	30	125	110	1	125	24,1
30	"	0,15-мкм	2,5	30	130	110	1	130	24,1
31	"	0,15-мкм	2,5	30	135	110	1	135	24,1
32	"	0,15-мкм	2,5	30	140	110	1	140	24,1
33	"	0,15-мкм	2,5	30	145	110	1	145	24,1
34	"	0,15-мкм	2,5	30	150	110	1	150	24,1
35	"	0,15-мкм	2,5	30	155	110	1	155	24,1
36	"	0,15-мкм	2,5	30	160	110	1	160	24,1
37	"	0,15-мкм	2,5	30	165	110	1	165	24,1
38	"	0,15-мкм	2,5	30	170	110	1	170	24,1
39	"	0,15-мкм	2,5	30	175	110	1	175	24,1
40	"	0,15-мкм	2,5	30	180	110	1	180	24,1
41	"	0,15-мкм	2,5	30	185	110	1	185	24,1
42	"	0,15-мкм	2,5	30	190	110	1	190	24,1
43	"	0,15-мкм	2,5	30	195	110	1	195	24,1
44	"	0,15-мкм	2,5	30	200	110	1	200	24,1
45	"	0,15-мкм	2,5	30	205	110	1	205	24,1
46	"	0,15-мкм	2,5	30	210	110	1	210	24,1
47	"	0,15-мкм	2,5	30	215	110	1	215	24,1
48	"	0,15-мкм	2,5	30	220	110	1	220	24,1
49	"	0,15-мкм	2,5	30	225	110	1	225	24,1
50	"	0,15-мкм	2,5	30	230	110	1	230	24,1
51	"	0,15-мкм	2,5	30	235	110	1	235	24,1
52	"	0,15-мкм	2,5	30	240	110	1	240	24,1
53	"	0,15-мкм	2,5	30	245	110	1	245	24,1
54	"	0,15-мкм	2,5	30	250	110	1	250	24,1
55	"	0,15-мкм	2,5	30	255	110	1	255	24,1
56	"	0,15-мкм	2,5	30	260	110	1	260	24,1
57	"	0,15-мкм	2,5	30	265	110	1	265	24,1
58	"	0,15-мкм	2,5	30	270	110	1	270	24,1
59	"	0,15-мкм	2,5	30	275	110	1	275	24,1
60	"	0,15-мкм	2,5	30	280	110	1	280	24,1
61	"	0,15-мкм	2,5	30	285	110	1	285	24,1
62	"	0,15-мкм	2,5	30	290	110	1	290	24,1
63	"	0,15-мкм	2,5	30	295	110	1	295	24,1
64	"	0,15-мкм	2,5	30	300	110	1	300	24,1
65	"	0,15-мкм	2,5	30	305	110	1	305	24,1
66	"	0,15-мкм	2,5	30	310	110	1	310	24,1
67	"	0,15-мкм	2,5	30	315	110	1	315	24,1
68	"	0,15-мкм	2,5	30	320	110	1	320	24,1
69	"	0,15-мкм	2,5	30	325	110	1	325	24,1
70	"	0,15-мкм	2,5	30	330	110	1	330	24,1
71	"	0,15-мкм	2,5	30	335	110	1	335	24,1
72	"	0,15-мкм	2,5	30	340	110	1	340	24,1
73	"	0,15-мкм	2,5	30	345	110	1	345	24,1
74	"	0,15-мкм	2,5	30	350	110	1	350	24,1
75	"	0,15-мкм	2,5	30	355	110	1	355	24,1
76	"	0,15-мкм	2,5	30	360	110	1	360	24,1
77	"	0,15-мкм	2,5	30	365	110	1	365	24,1
78	"	0,15-мкм	2,5	30	370	110	1	370	24,1
79	"	0,15-мкм	2,5	30	375	110	1	375	24,1
80	"	0,15-мкм	2,5	30	380	110	1	380	24,1
81	"	0,15-мкм	2,5	30	385	110	1	385	24,1
82	"	0,15-мкм	2,5	30	390	110	1	390	24,1
83	"	0,15-мкм	2,5	30	395	110	1	395	24,1
84	"	0,15-мкм	2,5	30	400	110	1	400	24,1
85	"	0,15-мкм	2,5	30	405	110	1	405	24,1
86	"	0,15-мкм	2,5	30	410	110	1	410	24,1
87	"	0,15-мкм	2,5	30	415	110	1	415	24,1
88	"	0,15-мкм	2,5	30	420	110	1	420	24,1
89	"	0,15-мкм	2,5	30	425	110	1	425	24,1
90	"	0,15-мкм	2,5	30	430	110	1	430	24,1
91	"	0,15-мкм	2,5	30	435	110	1	435	24,1
92	"	0,15-мкм	2,5	30	440	110	1	440	24,1
93	"	0,15-мкм	2,5	30	445	110	1	445	24,1
94	"	0,15-мкм	2,5	30	450	110	1	450	24,1
95	"	0,15-мкм	2,5	30	455	110	1	455	24,1
96	"	0,15-мкм	2,5	30	460	110	1	460	24,1
97	"	0,15-мкм	2,5	30	465	110	1	465	24,1
98	"	0,15-мкм	2,5	30	470	110	1	470	24,1
99	"	0,15-мкм	2,5	30	475	110	1	475	24,1
100	"	0,15-мкм	2,5	30	480	110	1	480	24,1

Family:

Publication number	Publication date	Application number	Application date
SU1608612 A1	19901123	SU19884641784	19881220

Priority:

SU19884641784 19881220

Probable Assignee: UK POLIGRAFICHESK I**Assignee(s):** (std): UK NII POLIGRAFICHESKOJ PROMYS ; UK POLIGRAFICHESK I**Assignee(s):** UK POLIGRAFICHESKI I IM IV FEDOROVA ; UK NII POLIGRAFICHESKOJ PROMY**Inventor(s):** (std): LAZARENKO EDUARD E ; LAZARENKO EDUARD T ; VASILEV VADIM B**Inventor(s):** VASILEV VADIM B SU ; LAZARENKO EDUARD T SU ; LAZARENKO EDUARD E SU

Title: VERFAHREN ZUM HERSTELLEN VON RELIEFFORMEN FUER DRUCKZWECKE

Abstract: Source: FR1488914A (Claim 1) **ATTENTION** debut du champ CLMS peut contenir fin de DESC **. bien des monomeres dont la molecule contient des groupes arethane. par exemple les produits de la reaction de monoacrylates de glycols ou de monomethacrylates de glycols avec des diisocyanates, ou des monomeres contenant a cote de groupes amale encore les groupes ur@e, tels que les produits de la reaction d'hexamethylene acrylamale avec des @@vanates.

Machine translation: (Claim 1) ** WARNING ** start of CLMS field may contain end of DESC **. many monomers whose molecule contains groups arethane. for example the products of the reaction of glycols monoacrylates or monomethacrylate glycols with diisocyanates, or monomers containing a group rating Amale still @ ur e groups, such as products of the reaction of hexamethylene acrylamale with @ @ Vanati.

Classifications:

International (IPC 8-9): C08F36/20 C08L77/00 G03F7/037 (Advanced/Invention);
C08F36/00 C08L77/00 G03F7/032 (Core/Invention)

International (IPC 1-7): G03C1/68 G03F7/10

CPC: C08F36/20 C08L77/00 G03F7/037

European: C08F36/20 C08L77/00 G03F7/037

Family:

Publication number	Publication date	Application number	Application date
BE685315 A	19670210		19660810
CH472060 A	19690430	CH19660011577	19660811
DE1447929 A1	19681212	DE19651447929	19650813
FR1488914 A	19671026		00000000

Priority:

DE1965B083257 19650813

Probable Assignee: BASF AG

Assignee(s): (std): BASF AG

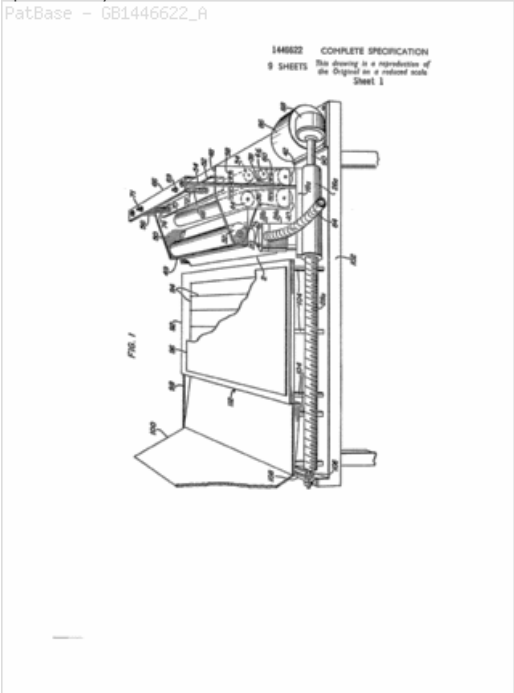
Assignee(s): BADISCHE ANILIN AND SODA FABRIK AG ; BADISCHE ANILIN AND SODA FABRIK
AKTIENGESELLSCHAFT

Inventor(s): (std): GEHM ROBERT DR ; HANS WILHELM DR ; HENKLER HERBERT DR ; HERBERT HENKLER DR ; ROBERT
GEHM DR ; WILHELM HANS DR

Title: DEVELOPMENT OF A LATENT IMAGE OF PHOTOHARDENED MATERIAL

Abstract: Source: GB1446622A 1446622 Developing photohardened material images W R GRACE and CO 21 Aug 1973 22096/75 Divided out of 1446621 Heading G2X A method of developing a latent image in a plate having areas of liquid photohardenable material and areas of photohardened material which constitute the latent image (the plate having been obtained by imagewise exposing to actimic radiation a photographic plate comprising a support plate having thereon a layer of the liquid photohardenable material) comprises blowing away liquid from the liquid areas with a sheet of gas. Preferably relative motion is effected between the plate and the sheet of gas longitudinally of the plate while blowing the gas as a sheet which extends across the plate transversely of the longitudinal direction of motion and is blown in a sense having one component in the direction of travel of the sheet relative to the plate and another component perpendicular to that direction. The method is preferably carried out in the apparatus described in the Specification (Serial No. 39609/73). A suitable photohardenable material is a photocurable polyene/polythiol composition comprising (1) a polyene containing at least 2 unsaturated carbon-to-carbon bonds reactive with thiol groups per molecule and (2) a polythiol containing at least 2 thiol groups per molecule, the total number of the unsaturated carbon-tocarbon bonds per molecule in the polyene and thiol groups per molecule in the polythiol being greater than 4, the photohardened material remaining after development being a polythioether. Other suitable compositions are of: styrene, poly (ethylene maleate/phthalate) and benzion methyl ether; or diethylene glycol diacrylate. The photohardenable material can initially be a solid if by warming it can be liquified. In the example the composition comprised pentaerythritol tetrakis-3- mercaptopropionate, benzophenone and a tetraene prepared from 1 mole of tolyene-2, 4-diisocyanate and 2 moles of trimethylolpropane diallyl ether.

Classifications:
International (IPC 8-9): G03F7/36 (Advanced/Invention);
G03F7/36 (Core/Invention)
International (IPC 1-7): G03D7/00
CPC: G03F7/36
European: G03F7/36



Family:

Publication number	Publication date	Application number	Application date
GB1446622 A	19760818	GB19750022096	19730821

Priority:
GB19750022096 19730821

Probable Assignee: GRACE W R AND CO
Assignee(s): (std): GRACE W R AND CO
Assignee(s): GRACE CO W R