



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶: B41M 5/30, G03C 1/73, G03F 7/004	A1	(11) International Publication Number: WO 95/29067 (43) International Publication Date: 2 November 1995 (02.11.95)
(21) International Application Number: PCT/US95/05128 (22) International Filing Date: 25 April 1995 (25.04.95) (30) Priority Data: 08/232,757 25 April 1994 (25.04.94) US (71) Applicant: POLAROID CORPORATION [US/US]; 549 Technology Square, Cambridge, MA 02139-3589 (US). (72) Inventors: EHRET, Anne; 128 Hawthorne Street, Malden, MA 02148 (US). MARSHALL, John, L.; 26 Gorham Street, Somerville, MA 02144 (US). SHON BAKER, Rita, S.; 10 Alton Court, Brookline, MA 02146 (US). TAKIFF, Larry, C.; 14 Trowbridge Street, Arlington, MA 02174 (US). TELFER, Stephen, J.; 74 Windsor Street, Arlington, MA 02174 (US). WARNER, John, C.; 47 Cedar Street, Norwood, MA 02062 (US). (74) Agent: COLE, David, John; Polaroid Corporation, 549 Technology Square, Cambridge, MA 02139-3589 (US).		(81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG , SI, SK, TJ, TT, UA, UG, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG), ARIPO patent (KE, MW, SD, SZ, UG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> <i>549611769-2</i>
(54) Title: PROCESS FOR FIXING AN IMAGE (57) Abstract A process for producing and fixing an image uses an imaging medium comprising an acid-generating layer or phase comprising a mixture of a superacid precursor, a sensitizer and a secondary acid generator, and a color-change layer comprising an image dye. The sensitizer can absorb radiation of a sensitizer wavelength which does not, in the absence of the sensitizer, cause decomposition of the superacid precursor to form the corresponding superacid. The secondary acid generator is capable of acid-catalyzed thermal decomposition by the first acid to form a secondary acid, and the image dye undergoes a color change upon contact with the secondary acid. The medium is imagewise exposed to radiation of the sensitizer wavelength, thereby causing the sensitizer, in exposed areas, to decompose superacid precursor with formation of the first acid. The medium is then heated to cause, in the exposed areas, acid-catalyzed thermal decomposition of the secondary acid generator and formation of the secondary acid. The components of the acid-generating and color-change layers or phases are mixed so that in exposed areas, the secondary acid causes the image dye to change color. At least the non-exposed areas, there is reacted with the superacid precursor a reactive material which irreversibly destroys the superacid precursor, thus fixing the image.		

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AT	Austria	GB	United Kingdom	MR	Mauritania
AU	Australia	GE	Georgia	MW	Malawi
BB	Barbados	GN	Guinea	NE	Niger
BE	Belgium	GR	Greece	NL	Netherlands
BF	Burkina Faso	HU	Hungary	NO	Norway
BG	Bulgaria	IE	Ireland	NZ	New Zealand
BJ	Benin	IT	Italy	PL	Poland
BR	Brazil	JP	Japan	PT	Portugal
BY	Belarus	KE	Kenya	RO	Romania
CA	Canada	KG	Kyrgyzstan	RU	Russian Federation
CF	Central African Republic	KP	Democratic People's Republic of Korea	SD	Sudan
CG	Congo	KR	Republic of Korea	SE	Sweden
CH	Switzerland	KZ	Kazakhstan	SI	Slovenia
CI	Côte d'Ivoire	LI	Liechtenstein	SK	Slovakia
CM	Cameroon	LK	Sri Lanka	SN	Senegal
CN	China	LU	Luxembourg	TD	Chad
CS	Czechoslovakia	LV	Latvia	TG	Togo
CZ	Czech Republic	MC	Monaco	TJ	Tajikistan
DE	Germany	MD	Republic of Moldova	TT	Trinidad and Tobago
DK	Denmark	MG	Madagascar	UA	Ukraine
ES	Spain	ML	Mali	US	United States of America
FI	Finland	MN	Mongolia	UZ	Uzbekistan
FR	France			VN	Viet Nam
GA	Gabon				

96 117 69 - 2

4 NOV 1996