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(54) **Photothermographic material**

(57) In a photothermographic material comprising an organic silver salt, a silver halide, and a reducing agent, a hydrazine compound of a special structure and a sensitizing dye of a special structure are contained. The photothermographic material shows high Dmax and ultrahigh contrast.



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 00 12 7241

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X,Y, D	US 5 496 695 A (MINNESOTA MINING AND MANUFACTURING COMPANY) 5 March 1996 (1996-03-05) * column 25, line 35 - column 27, line 10; claims *	1-20	G03C1/498
Y,L	US 5 441 866 A (MILLER ET AL.) 15 August 1995 (1995-08-15) L: referred to in US5496695* claims *	1,2,4-20	
Y,L	EP 0 616 014 A (MINNESOTA MINING AND MANUFACTURING COMPANY) 21 September 1994 (1994-09-21) L: referred to in W09711407 (as US5393654)* claims; table 1 *	1,2,4-20	
Y,L	US 3 719 495 A (B.A.LEA) 6 March 1973 (1973-03-06) L: referred to in US5496695 * the whole document *	3-11, 15-20	
P,X	WO 97/11407 A (IMATION CORP.) 27 March 1997 (1997-03-27) * page 47 - page 48; claims *	1,2,4-20	TECHNICAL FIELDS SEARCHED (Int.Cl.7) G03C
P,X D	EP 0 762 196 A (FUJI PHOTO FILM CO., LTD.) 12 March 1997 (1997-03-12) * claims; examples * & JP 95 228627 A 1995	1,2,4-20	
E	EP 0 803 765 A (FUJI PHOTO FILM CO., LTD.) 29 October 1997 (1997-10-29) * examples 1,2 *	3-11, 15-20	
E	EP 0 803 766 A (FUJI PHOTO FILM CO., LTD.) 29 October 1997 (1997-10-29) * examples *	3-11, 15-20	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 28 September 2004	Examiner Buscha, A
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

EPO FORM 1503 03.82 (P04C01)



CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):

- No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

- None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-2, 12-24, 4-11 (partially), 15-20 (partially)

Photothermographic dry silver material comprising a hydrazide and dye D-II

2. claims: 1-2, 12-24, 4-11 (partially), 15-20 (partially)

Photothermographic dry silver material comprising a hydrazide and dye D-III

3. claims: 3, 4-11 (partially), 15-20 (partially)

Photothermographic dry silver material comprising a hydrazide and dye D-IV

4. claims: 3, 4-11 (partially), 15-20 (partially)

Photothermographic dry silver material comprising a hydrazide and dye D-V

5. claims: 3, 4-11 (partially), 15-20 (partially)

Photothermographic dry silver material comprising a hydrazide and dye D-VI

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

28-09-2004

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5496695 A	05-03-1996	BR 9510135 A	30-12-1997
		CA 2207485 A1	11-07-1996
		CN 1171846 A	28-01-1998
		DE 69514837 D1	02-03-2000
		DE 69514837 T2	12-10-2000
		EP 0801769 A2	22-10-1997
		EP 0940714 A2	08-09-1999
		JP 10512061 T	17-11-1998
		WO 9621174 A2	11-07-1996
		US 5536622 A	16-07-1996
		US 5441866 A	15-08-1995
BR 9506899 A	09-09-1997		
CA 2184271 A1	31-08-1995		
DE 69503116 D1	30-07-1998		
DE 69503116 T2	18-02-1999		
EP 0748464 A1	18-12-1996		
JP 9510022 T	07-10-1997		
WO 9523355 A1	31-08-1995		
EP 0616014 A	21-09-1994	DE 69402351 D1	07-05-1997
		DE 69402351 T2	20-11-1997
		EP 0616014 A2	21-09-1994
		JP 6301141 A	28-10-1994
		US 5393654 A	28-02-1995
US 3719495 A	06-03-1973	AR 193805 A1	31-05-1973
		DE 2048561 A1	22-04-1971
		FR 2065716 A5	06-08-1971
		GB 1325312 A	01-08-1973
		JP 49018808 B	13-05-1974
WO 9711407 A	27-03-1997	US 5637449 A	10-06-1997
		AU 6725796 A	09-04-1997
		DE 69624722 D1	12-12-2002
		DE 69624722 T2	18-09-2003
		EP 0852024 A1	08-07-1998
		JP 11512538 T	26-10-1999
		WO 9711407 A1	27-03-1997
		EP 0762196 A	12-03-1997
DE 69604881 T2	30-03-2000		
EP 0762196 A1	12-03-1997		
JP 10010672 A	16-01-1998		
US 6090538 A	18-07-2000		

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 12 7241

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

28-09-2004

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 95228627	A	NONE	

EP 0803765	A	29-10-1997	JP 10010669 A 16-01-1998
			EP 0803765 A1 29-10-1997
			US 6027871 A 22-02-2000

EP 0803766	A	29-10-1997	JP 9297369 A 18-11-1997
			JP 9297368 A 18-11-1997
			JP 10010671 A 16-01-1998
			JP 10020436 A 23-01-1998
			DE 69728466 D1 13-05-2004
			EP 0803766 A1 29-10-1997
			US 6203972 B1 20-03-2001
			JP 10048772 A 20-02-1998
