



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 1 020 772 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
23.04.2003 Bulletin 2003/17

(51) Int Cl.7: **G03G 7/00, B41M 7/00**

(43) Date of publication A2:
19.07.2000 Bulletin 2000/29

(21) Application number: **00100588.3**

(22) Date of filing: **12.01.2000**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE**
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: **13.01.1999 JP 633899**
14.01.1999 JP 745099

(71) Applicant: **MINOLTA CO., LTD.**
Chuo-Ku, Osaka-Shi, Osaka 541-8556 (JP)

(72) Inventors:
• **Yoshie, Naoki, c/o Minolta Co., Ltd.**
Chuo-Ku, Osaka-shi, Osaka (JP)
• **Yamaoka, Chiaki, c/o Minolta Co., Ltd.**
Chuo-Ku Osaka-Shi, Osaka (JP)
• **Fujiwara, Toshimitsu, c/o Minolta Co., Ltd.**
Chuo-Ku, Osaka-Shi, Osaka (JP)

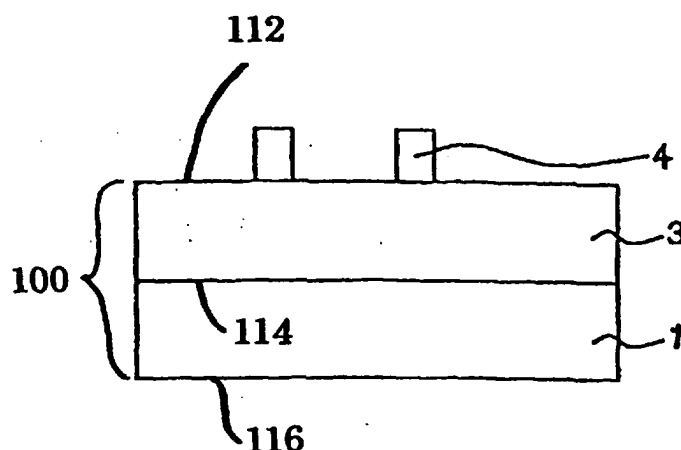
(74) Representative: **Glawe, Delfs, Moll & Partner**
Patentanwälte
Postfach 26 01 62
80058 München (DE)

(54) **Recyclable image-recording medium**

(57) This invention relates to a recyclable image-recording medium comprising a base member and a water-swelling surface layer, wherein a coefficient μ_s of

static friction on a surface of the water-swelling surface layer is in the range from about 0.15 to 0.70 at 25°C and 60 % RH.

Fig. 1



EP 1 020 772 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 00 10 0588

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	EP 0 832 946 A (HITACHI MAXELL) 1 April 1998 (1998-04-01) * page 3, line 6 - line 51 * * page 4, line 6 - line 21 * * page 5, line 9 - line 11 * * page 9; example 9 * ---	1,2,4-7, 12	G03G7/00 B41M7/00
X	EP 0 695 789 A (HITACHI MAXELL) 7 February 1996 (1996-02-07) * page 4, line 5 - line 37; claims 1-11 * ---	1,4-7,12	
X	EP 0 601 502 A (HITACHI MAXELL) 15 June 1994 (1994-06-15) * page 3, line 5 - line 29 * * page 4, line 19 - line 35 * -----	1,2,4-7, 12	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			G03G B41M C09D
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 21 February 2003	Examiner Vogt, C
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 03/02 (P04C01)

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

EP 00 10 0588

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.

21-02-2003

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0832946	A	01-04-1998	AU 2521897 A	29-10-1997
			EP 0832946 A1	01-04-1998
			US 6254995 B1	03-07-2001
			WO 9738055 A1	16-10-1997
			JP 10053731 A	24-02-1998
EP 0695789	A	07-02-1996	DE 69525574 D1	04-04-2002
			DE 69525574 T2	02-10-2002
			EP 0695789 A1	07-02-1996
			JP 8102395 A	16-04-1996
			US 5876847 A	02-03-1999
EP 0601502	A	15-06-1994	EP 0601502 A2	15-06-1994
			JP 6222604 A	12-08-1994
			US 6261380 B1	17-07-2001
			US 6103366 A	15-08-2000