

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) Publication number:

0 402 882 A3

(12)

EUROPEAN PATENT APPLICATION(21) Application number: **90111145.0**(51) Int. Cl.⁵: **G03G 9/08**(22) Date of filing: **13.06.90**

(30) Priority: **14.06.89 JP 151276/89**
02.08.89 JP 200981/89

(43) Date of publication of application:
19.12.90 Bulletin 90/51

(84) Designated Contracting States:
BE DE FR GB

(88) Date of deferred publication of the search report:
16.01.91 Bulletin 91/03

(71) Applicant: **BANDO CHEMICAL INDUSTRIES, LIMITED**
2-15, Meiwa-dori 3-chome
Hyogo-ku Kobe-shi(JP)

(72) Inventor: **Nonaka, Keizo, c/o Bando Chemical Industries, Ltd.**
2-15, Meiwadori 3-chome
Hyogo-ku, Kobe(JP)
Inventor: **Yamashiro, Jiro, c/o Bando Chemical Ind. Ltd.**
2-15, Meiwadori 3-chome
Hyogo-ku, Kobe(JP)
Inventor: **Yamaguchi, Katsuya, c/o Bando Chemical Ind. Ltd.**
2-15, Meiwadori 3-chome
Hyogo-ku, Kobe(JP)

(74) Representative: **von Kreisler, Alek et al**
Patentanwälte von Kreisler Selting Werner
Deichmannhaus am Hauptbahnhof
D-5000 Köln 1(DE)

(54) **Master batch for production of toners used in electrophotography.**

(57) A method of producing a master batch for the production of toners used in electrophotography is disclosed, which comprises: mixing and kneading a binder resin in an amount of 100 parts by weight, at least one of dyes and pigments in an amount of 1-300 parts by weight and an organic solvent in an amount of 5-500 parts by weight in which the binder resin is soluble, and then, optionally crushing or granulating the mixture.

There is further disclosed a method of producing toners for use in electrophotography which comprises: adding 100 parts by weight of a second binder resin to 2-20 parts by weight of the master batch together with an effective amount of an additive when necessary, to form a second mixture, kneading the second mixture to a composition; and (c) crushing the composition to toner particles.

EP 0 402 882 A3



European
Patent Office

EUROPEAN SEARCH REPORT

Application Number

EP 90 11 1145

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.5)
X	EP-A-0 298 173 (MITSUI TOATSU CHEMICALS INC.) * page 3, lines 11 - 57; claims 1-10 **examples * -----	1-8	G 03 G 9/08
X	GB-A-2 005 692 (APECO CO.) * claims 1-18 * -----	1,2	
D,X	PATENT ABSTRACTS OF JAPAN vol. 10, no. 358 (P-522)(2415) 02 December 1986, & JP-A-61 156054 (FUJITSU LTD.) 15 July 1986, * the whole document * -----	1-8	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			G 03 G
The present search report has been drawn up for all claims			
Place of search		Date of completion of search	Examiner
The Hague		28 November 90	BATTISTIG M.L.A.
CATEGORY OF CITED DOCUMENTS			
X: particularly relevant if taken alone		E: earlier patent document, but published on, or after the filing date	
Y: particularly relevant if combined with another document of the same category		D: document cited in the application	
A: technological background		L: document cited for other reasons	
O: non-written disclosure		-----	
P: intermediate document		&: member of the same patent family, corresponding document	
T: theory or principle underlying the invention			