

(12) **EUROPEAN PATENT APPLICATION**

(21) Application number: **79300512.5**

(51) Int. Cl.²: **G 03 G 9/08, G 03 G 9/10**

(22) Date of filing: **29.03.79**

(30) Priority: **06.04.78 US 893915**

(71) Applicant: **XEROX CORPORATION, Xerox Square,
Rochester New York 14644 (US)**

(43) Date of publication of application: **17.10.79**
Bulletin 79/21

(72) Inventor: **Volkers, Stewart W., 1956 Salmon Creek
Road, Williamson New York 14589 (US)**
Inventor: **Webb, John L., 105 Squirrels Heath Road,
Fairport New York 14450 (US)**

(84) Designated Contracting States: **DE GB NL**

(88) Date of deferred publication of search
report: **14.11.79 Bulletin 79/23**

(74) Representative: **Goode, Ian Roy et al, c/o Rank Xerox
Limited Patent Dept. Westbourne House 14-16
Westbourne Grove, London W2 5RH (GB)**

(54) **Electrostatographic developer mixture and imaging process.**

(57) Electrostatographic developer mixtures providing substantially improved copy quality are disclosed. The developer mixtures comprise toner particles substantially all of which are of a size between a lower size limit of 3 microns and an upper size limit of between 8 and 15 microns. The carrier particles have a mean size which is not less than the upper size limit of the toner particles and not greater than 65 microns. Imaging processes employing the developer mixtures are also disclosed.



European Patent
Office

EUROPEAN SEARCH REPORT

0004748
Application number
EP 79 30 0512

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. ²)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
	CHEMICAL ABSTRACTS, Vol. 80, no.20, May 20, 1974, abstract no. 114803w, page 456, column 2 COLUMBUS OHIO (US) TSUCHIYA, KAICHI et al.: "Electro-photographic toners containing I.R.-absorbing compounds" & JP - A - 73 90 747 (CANON) * entire abstract * --- CHEMICAL ABSTRACTS, Vol. 80, no.24, June 17, 1974, abstract no. 139530t, page 448, column 2 COLUMBUS OHIO (US) TSUCHIYA, KAICHI et al.: "Toner for electrophotography" & JP - A - 74 06 931 (CANON) * entire abstract * --- CHEMICAL ABSTRACTS, Vol. 80, no.24, June 17, 1974, abstract no. 139534x, page 449, column 1 COLUMBUS OHIO (US) TSUCHIYA, KAICHI et al.: "Toners for electrophotographic developers" & JP - A - 74 05 637 (CANON) * entire abstract * --- CHEMICAL ABSTRACTS, Vol. 80, no.24, June 17, 1974, abstract no. 139540w, page 449, column 2	1,2,10 1,2,10 1,2,10 1,2,10 ./.	G 03 G 9/08 G 03 G 9/10 TECHNICAL FIELDS SEARCHED (Int.Cl.²) G 03 G 9/08 G 03 G 9/10 CATEGORY OF CITED DOCUMENTS X: particularly relevant A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: conflicting application D: document cited in the application L: citation for other reasons &: member of the same patent family, corresponding document
X The present search report has been drawn up for all claims			
Place of search The Hague	Date of completion of the search 22-06-1979	Examiner VANHECKE	



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl.)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
	COLUMBUS OHIO (US) TSUCHIYA, KAICHI et al.: "Toner for electrographic developers" & JP - A - 74 05 636 (CANON) * entire abstract * --- DERWENT JAPANESE PATENTS REPORT, Volume V, no. 31, September 4, 1973 LONDON U.K. "Electrostatic image-developing particles", Section G, page 4 & JP - B - 73 25 663 (CANON) * Section G, page 4, column 1, last paragraph to page 4, column 2, paragraph 1; entire abstract * --- <u>DE - A - 2 261 593</u> (CANON) * claims; examples; page 10, paragraph 2 * --- A <u>US - A - 3 781 207</u> (R.F. TAMM) * claims; column 2, line 31 to column 3, line 56 * --- A <u>CH - A - 426 492</u> (KALLE) * claims, examples; page 1, line 70 to page 2, line 89; page 3, lines 75-120 * ---	1,2,10 1,2,3,4,10 1,2,5,7,10 1,2,7,8,10 ./.	TECHNICAL FIELDS SEARCHED (Int. Cl.)



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. ²)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	<u>FR - A - 2 156 414</u> (OCE) * claims; page 6, line 16 to page 7, line 9 * ---	1	
A	<u>DE - A - 2 522 771</u> (XEROX) * claims; examples * ---	2,3,4 5,7	
A	<u>DE - A - 2 101 156</u> (REPROGRAPHIC MATERIALS) * claims; examples * ---	1,5,6 9	TECHNICAL FIELDS SEARCHED (Int. Cl. ²)
A	<u>US - E - 27 912</u> (H.A. MILLER) * claims; examples; column 5, lines 1-33 * ---	1,2,3 4,5,6	
A	<u>GB - A - 1 279 231</u> (SPERRY RAND CORP.) * claims; page 2, lines 6-11 * ---	1	
E	<u>EP - A - 0 001 785</u> (IBM) * claims * -----	1	