

(19)



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(11)

**EP 0 657 789 A3**

(12)

**EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**06.03.1996 Bulletin 1996/10**

(51) Int Cl.<sup>6</sup>: **G03G 15/20**

(43) Date of publication A2:  
**14.06.1995 Bulletin 1995/24**

(21) Application number: **94309235.3**

(22) Date of filing: **09.12.1994**

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

(30) Priority: **10.12.1993 US 164853**  
**29.09.1994 US 314759**  
**29.09.1994 US 315004**  
**29.09.1994 US 315006**

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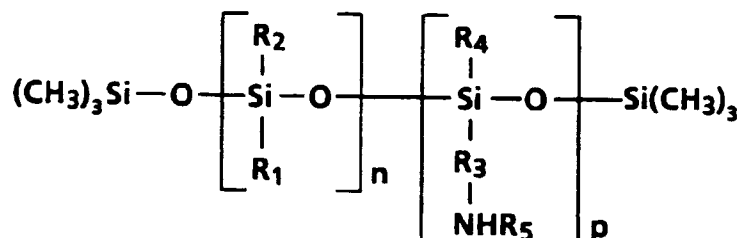
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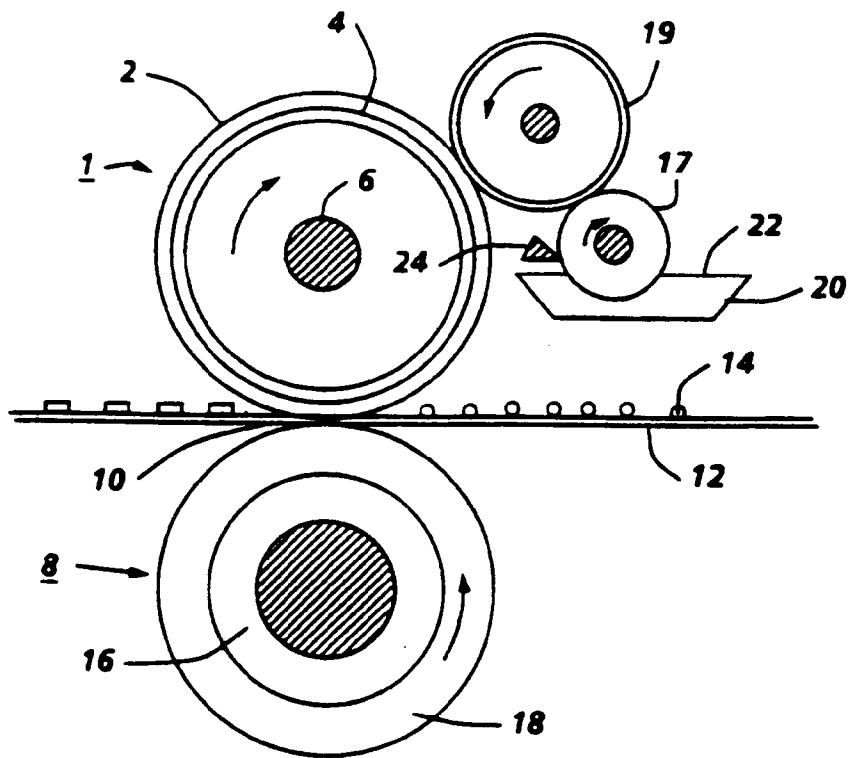
(54) **Fusing system, method of fusing and release agent for the fusing system in an electrostatographic printing apparatus**

(57) The method of fusing thermoplastic resin toner images (14) to a substrate (12) in a fuser including a heated thermally stable FKM hydrofluoroelastomer fusing surface (2) at elevated temperature prepared in the absence of anchoring sites for a release agent of heavy metals, heavy metal oxides, or other heavy metal compounds forming a film of a fluid release agent on the elastomer surface (2) of an amino functional oil having the formula:



where  $50 \leq n \leq 200$ ,  $p$  is 1 to 5, and  $\text{R}_1$ ,  $\text{R}_2$  and  $\text{R}_3$  are alkyl or arylalkyl radicals having 1 to 18 carbon atoms,  $\text{R}_4$  is an alkyl or arylalkyl radicals having 1 to 18 carbon atoms and a polyorganosiloxane chain having 1 to 100 diorganosiloxy repeat units, and  $\text{R}_5$  is hydrogen, alkyl or arylalkyl radicals having 1 to 18 carbon atoms, the oil having sufficient amino functionality per active molecule to interact with the hydrofluoroelastomer surface in the absence of a heavy metal and heavy metal anchoring sites to provide an interfacial barrier layer to the toner and a low surface energy film to release the toner from the surface; contacting the toner image on the substrate with the filmed heated elastomer surface to fuse the toner image to the substrate and permitting the toner to cool.

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# EUROPEAN SEARCH REPORT

Application Number  
EP 94 30 9235

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.6)
A	EP-A-0 322 099 (CANON KK) 28 June 1989 * claim 10 * ---	1,7,8, 13-15	G03G15/20
D,A	US-A-5 157 445 (SHOJI YOSHIO ET AL) 20 October 1992 * claims * ---	1,7,8, 13-15	
D,A	US-A-4 272 179 (SEANOR DONALD A) 9 June 1981 * claims 1,14-18 * ---	1,7,8, 13-15	
D,A	US-A-4 185 140 (HOFFEND THOMAS R ET AL) 22 January 1980 * column 6, line 11 - line 52 * -----	1,7,8, 13-15	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			G03G
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 19 December 1995	Examiner Hoppe, H
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>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</p> <p>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  -----  &amp; : member of the same patent family, corresponding document</p>			

EPO FORM 150 (3.92) (P4/C01)