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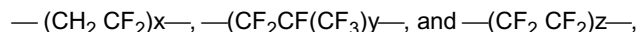
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(54) **Thermally conducting fluoroplastic random copolymer fuser member composition**

(57) A fuser member comprising a support and a layer overlying the support, the layer including a fluorocarbon thermoplastic random copolymer, a curing agent having a bisphenol residue, a particulate filler containing zinc oxide, an aminosiloxane, and a particulate filler containing aluminum oxide, the cured fluorocarbon thermoplastics random copolymer having subunits of:



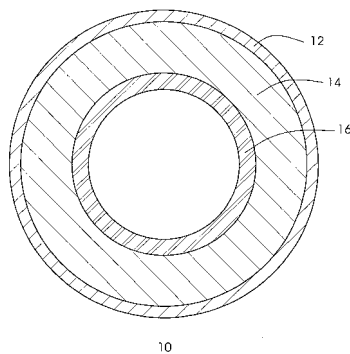
wherein

x is from 1 to 50 or 60 to 80 mole percent,

y is from 10 to 90 mole percent,

z is from 10 to 90 mole percent, and

x + y + z equal 100 mole percent.



10

Fig.1



EUROPEAN SEARCH REPORT

Application Number
EP 01 11 3602

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 5 292 606 A (FITZGERALD JOHN J [US]) 8 March 1994 (1994-03-08) * abstract * * column 4, line 65 - column 5, line 14 * -----	1-19	INV. G03G15/20
X	EP 0 454 030 A2 (EASTMAN KODAK CO [US]) 30 October 1991 (1991-10-30) * abstract * * column 7, line 42 - column 8, line 7 * -----	1-19	
X	US 5 736 250 A (HEEKS GEORGE J [US] ET AL) 7 April 1998 (1998-04-07) * abstract * * claim 31 * * claim 34 *	1-19	
X	US 5 466 533 A (FITZGERALD JOHN J [US] ET AL) 14 November 1995 (1995-11-14) * abstract * * Comparative Example C-E * * column 9, line 49 - column 9, line 67 * -----	1-19	
X	EP 0 969 333 A1 (XEROX CORP [US]) 5 January 2000 (2000-01-05) * abstract * * paragraph [0057] * * paragraph [0061] *	1-19	TECHNICAL FIELDS SEARCHED (IPC) G03G G03C
X	EP 0 018 140 A1 (XEROX CORP [US]) 29 October 1980 (1980-10-29) * abstract * * page 15, line 5 - page 15, line 13 * ----- -/--	1-19	
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 24 August 2010	Examiner Pavón Mayo, Manuel
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			

 1
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EUROPEAN SEARCH REPORT

Application Number
EP 01 11 3602

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 5 595 823 A (CHEN JIANN H [US] ET AL) 21 January 1997 (1997-01-21) * abstract * * column 4, line 50 - column 5, line 67; claim 1 * * column 8, line 10 - line 34 * -----	1-19	
X	US 4 853 737 A (HARTLEY PAUL A [US] ET AL) 1 August 1989 (1989-08-01) * abstract * * column 6, line 39 - line 67 * -----	1-19	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
Place of search Munich		Date of completion of the search 24 August 2010	Examiner Pavón Mayo, Manuel
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1
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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 11 3602

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
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24-08-2010

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5292606	A	08-03-1994	NONE	
EP 0454030	A2	30-10-1991	JP 4230783 A	19-08-1992
US 5736250	A	07-04-1998	NONE	
US 5466533	A	14-11-1995	NONE	
EP 0969333	A1	05-01-2000	DE 69913888 D1	05-02-2004
			DE 69913888 T2	09-06-2004
			JP 2000039789 A	08-02-2000
			US 6002910 A	14-12-1999
EP 0018140	A1	29-10-1980	DE 3068768 D1	06-09-1984
US 5595823	A	21-01-1997	NONE	
US 4853737	A	01-08-1989	DE 68920478 D1	23-02-1995
			DE 68920478 T2	31-08-1995
			EP 0344481 A2	06-12-1989
			JP 2025882 A	29-01-1990
			JP 2986806 B2	06-12-1999