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(54) **Imaging element comprising an improved electrically conductive layer containing acicular metalcontaining particles**

(57) The present invention is an imaging element which includes a support, an image-forming layer superposed on the support and an electrically-conductive layer superposed on the support. The electrically-conductive layer contains a film-forming binder and acicular, crystalline single-phase, electrically-conductive metal-containing particles. The acicular, crystalline single-phase, conductive metal-containing particles have a di-

ameter less than or equal to 0.02 µm and an aspect greater than or equal to 3:1. The electrically-conductive layer is formed by dispersing the acicular particles using polymeric milling media having a size less than 350 µm to form a colloidal dispersion, combining the colloidal dispersion with the film forming binder to form a mixture, coating the mixture onto the support and drying the mixture to form the electrically-conductive layer.

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EUROPEAN SEARCH REPORT

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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)
D,A	US 5 719 016 A (CHRISTIAN ET AL) 17 February 1998 (1998-02-17) * column 1, line 13 - line 16 * * column 4, line 11 - line 15 * * column 8, line 21 - column 10, line 46 * * column 12, line 8 - line 13 * * claims 1-3,5,7,9,13-27,31-34 *	1-10	G03C1/85 G03G5/10 B41M5/40
D,A	US 5 575 957 A (OKUDA ET AL) 19 November 1996 (1996-11-19) * column 1, line 8 - line 14 * * column 2, line 35 - line 41 * * column 6, line 8 - line 14 * * column 16, line 1 - line 22 * * claims 1,8 *	1-10	
D,A	US 5 500 331 A (CZEKAI ET AL) 19 March 1996 (1996-03-19) * column 1, line 6 - line 9 * * column 1, line 46 - column 2, line 6 * * column 2, line 16 - line 26 * * claims 1,2,4-6,9-11 *	1-10	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			G03C B41M
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
MUNICH	21 December 1999	Binder, R	
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			
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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 99 20 0876

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.

21-12-1999

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5719016	A	17-02-1998		EP 0841591 A	13-05-1998
				JP 10142738 A	29-05-1998

US 5575957	A	19-11-1996		JP 8231222 A	10-09-1996
				JP 8217445 A	27-08-1996
				JP 9012314 A	14-01-1997
				AU 693958 B	09-07-1998
				AU 4049395 A	04-07-1996
				CA 2166020 A	28-06-1996
				CN 1133264 A	16-10-1996
				DE 69511057 D	02-09-1999
				DE 69511057 T	09-12-1999
				EP 0719730 A	03-07-1996
				US 5705098 A	06-01-1998

US 5500331	A	19-03-1996		DE 69511936 D	14-10-1999
				EP 0684507 A	29-11-1995
				JP 7313894 A	05-12-1995
