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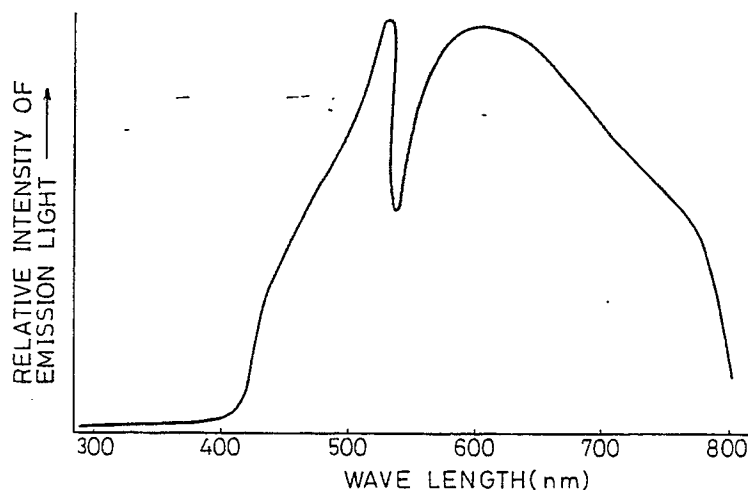
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(54) **Ultraviolet ray-shielding agent and tube.**

(57) Disclosed is an ultraviolet ray-shielding agent for selectively shielding ultraviolet rays while allowing a transmission of visible rays therethrough, comprising a visible ray-transmitting binder and extremely fine zinc oxide particles having an average size of 0.1 μm or less in a mixing ratio of the zinc oxide particles to the binder of 1/10 to 10/1, and an ul-

traviolet ray-shielding tube for visible ray-irradiation luminescent lamps comprising a transparent substrate tube for sealing a light emission source therein, and a coating formed on a surface of the substrate tube and comprising the above-mentioned ultraviolet ray-shielding agent.

Fig.3





European
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EUROPEAN SEARCH REPORT

Application Number

EP 89 31 2420

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,Y,A	GB-A-2 184 356 (KAO CORPORATION) * abstract; claims 1-4 * - - -	1,3,4,5,7, 2,8	H 01 J 61/35 H 01 J 61/40 C 03 C 17/25
Y,A	GB-A-9 374 48 (PHILIPS) * page 1, lines 62 - 82 ** page 2, lines 30 - 48 * - - -	3,4,5,7,7	
A	US-A-2 774 903 (L BURNS) * column 2, lines 20 - 42; claim 1; figures 3-6 * - - -	3,4,5,6,7	
A	DE-A-1 915 510 (WESTINGHOUSE) * page 1, paragraph 1 ** page 16, last paragraph; figures 1, 4, 5 * - - -	7,7	
A	CH-B-2 759 57 (GENERAL ELECTRIC) * claim 1 * - - -	2,8	
A	US-A-4 792 716 (P WALSH) * abstract ** column 6, lines 57 - 63; figure 3 * - - - - -	3	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			H 01 J 61/00 H 01 K 1/00 C 09 C 1/00 C 03 C 17/00 H 01 J 5/00
Place of search		Date of completion of search	Examiner
The Hague		21 February 91	HULNE S.L.
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			