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[54] **SPECTRALLY SENSITIZED SILVER HALIDE PHOTOGRAPHIC EMULSIONS**

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[21] Appl. No.: **815,751**

[22] Filed: **July 14, 1977**

[30] **Foreign Application Priority Data**

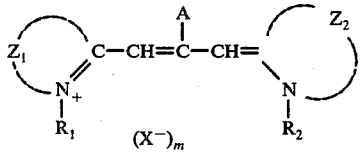
July 14, 1976 Japan 51-84320

[51] **Int. Cl.**[2] **G03C 5/24**

[52] **U.S. Cl.** ..... **96/64;** 96/94 R; 96/76 R; 96/100 R; 96/124; 96/126

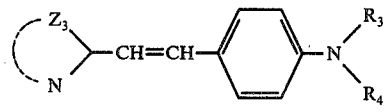
[57] **ABSTRACT**

An internal latent image type silver halide photographic emulsion suitable for use in a light-sensitive material for the diffusion transfer process and which provides a direct positive image by surface development in the presence of a fogging agent, which emulsion is spectrally sensitized with a supersensitizing combination of at least on sensitizing dye represented by the following general formula (I)



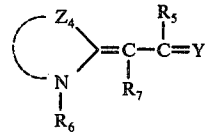
(I)

werein Z_1 represents a non-metallic atomic group necessary to complete a benzoxazole ring, a naphthoxazole ring, a benzothiazole ring, a naphthothiazole ring, a benzoselenazole ring or a benzimidazole ring; Z_2 represents a non-metallic atomic group necessary to complete a benzothiazole ring, a naphthothiazole ring or a benzoselenazole ring; A represents a hydrogen atom or an alkyl group; R_1 and R_2, which may be the same or different, each represents an alkyl group or a substituted alkyl group; X represents an acid anion; and m represents 0 or 1, and at least one sensitizing dye represented by the following general formula (II), (III) or (IV):



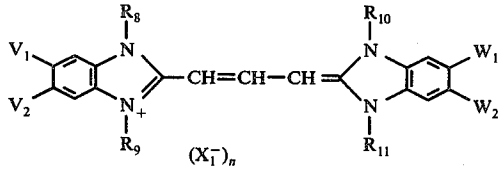
(II)

wherein Z_3 represents a non-metallic atomic group necessary to complete a 5- or 6-membered heterocyclic ring; and R_3 and R_4, which may be the same or different, each represents an alkyl group;



(III)

wherein Z_4 represents a non-metallic atomic group necessary to complete a 5- or 6-membered heterocyclic ring; R_5 represents an alkyl group; R_6 represents an alkyl group or a substituted alkyl group; R_7 represents a hydrogen atom or R_6 and R_7 can combine and form a ring and Y represents an oxygen atom or $=N-R_8$, wherein R_8 represents a hydrogen atom, an alkyl group or an aryl group,



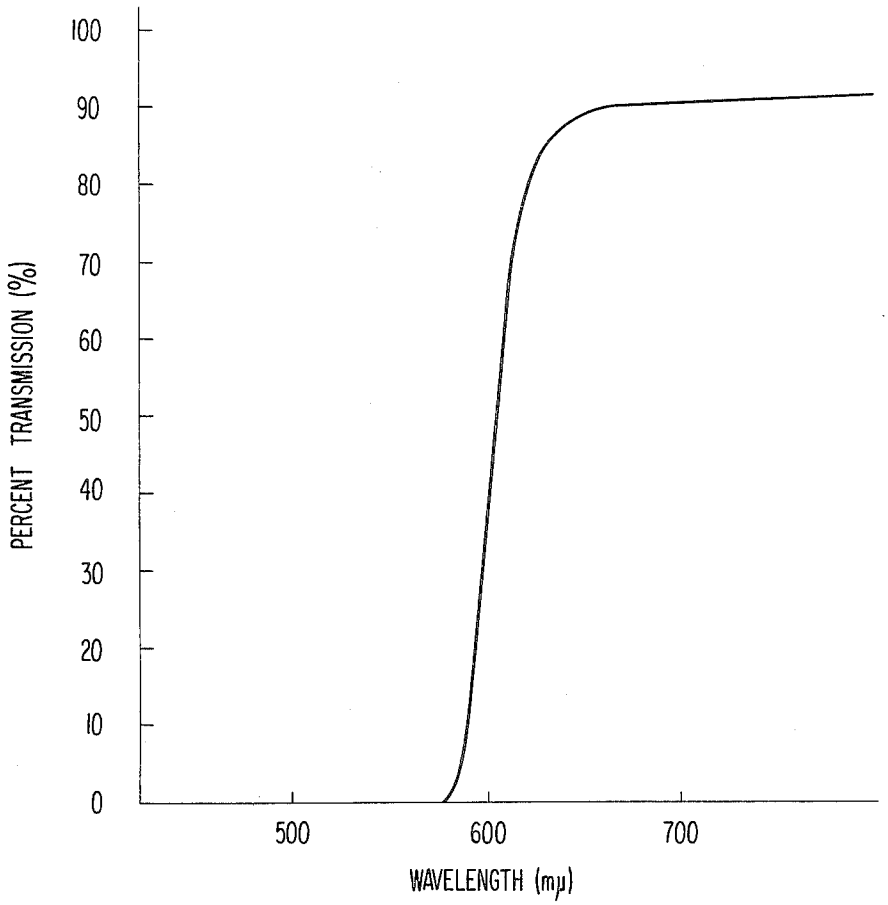
(IV)

wherein V_1, V_2, W_1 and W_2, which may be the same or different, each represents a hydrogen atom, a halogen atom, a trifluoromethyl group, a cyano group, a carboxy group, an alkoxycarbonyl group, an aminosulfonyl group or an alkylsulfonyl group; R_8, R_9, R_{10} and R_{11}, which may be the same or different, each represents an alkyl group or a substituted alkyl group; X_1 represents an acid anion; and *n* represents 0 or 1.

10 Claims, 1 Sheet Drawing,

62 Pages Specification

The file of this unexamined application may be inspected and copies thereof may be purchased (849 O.G. 1221, Apr. 9, 1968).


100
90
80
70
60
50
40
30
20
10
0
PERCENT TRANSMISSION (%)
500
600
700
WAVELENGTH (mμ)