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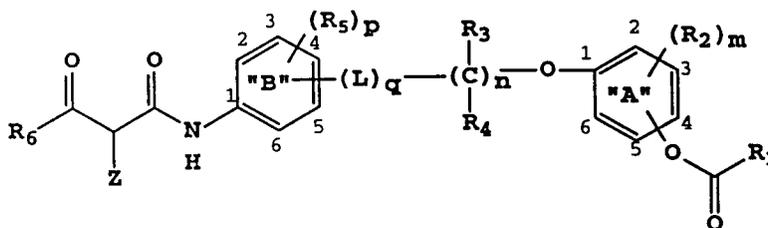
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(54) Photographic element containing yellow dye-forming coupler comprising a dye light stability enhancing ballast and process

(57) A photographic element comprises a light sensitive silver halide emulsion layer having associated therewith an open chain α -carbonyl acetanilide yellow dye-forming coupler having the formula:



wherein

R_1 is selected from the group consisting of alkyl, aryl, heterocyclic, and amino groups, provided that R_1 may form a ring bonded to another carbon atom which is a member of Ring "A";
each R_2 is independently selected from the group consisting of those substituents having a Hammett's sigma value of 0 or less, and m is from 0 to 4;
each R_3 and R_4 for each of the n carbon atoms is independently selected from the group consisting of hydrogen, alkoxy, aryl, heterocyclic, aryloxy, and alkyl groups, and n is 0 to 16;
each R_5 is independently selected from the group consisting of halogen, amino, alkyl groups, and groups linked to the "B" ring by oxygen or sulfur, and p is 1 to 3, provided that two R_5 groups may join to form a ring;
each L is independently a divalent linking group and q is 0 to 3; and
Ring "A" is bonded indirectly to the 3-, 4-, or 5-position of Ring "B",
 R_6 is selected from the group consisting of alkyl, aryl, and amino groups; and

(1) when an R_5 is halogen, Z is hydrogen or a coupling-off group selected from the group consisting of:

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(a) an aryloxy or arylthio group;

(b) a heterocyclic group containing, in a five or six membered ring, one or two nitrogen atoms, wherein the group Z is bonded to the remainder of the coupler through a nitrogen atom in the ring; and

(c) a benzotriazole group wherein the group Z is bonded to the remainder of the coupler through a nitrogen atom in the triazole group; and

(2) when no R_5 is halogen, Z is hydrogen, or a group capable of coupling-off when the coupler reacts with an oxidized color developing agent.



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EUROPEAN SEARCH REPORT

Application Number
EP 96 20 3192

| 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) |
| X | PATENT ABSTRACTS OF JAPAN vol. 5, no. 84 (P-064), 2 June 1981 & JP 56 030126 A (KONISHIROKU PHOTO IND. CO. LTD.), 26 March 1981, * see specification, coupler Y-15 * ----- | 1-11 | G03C7/36 |
| | | | TECHNICAL FIELDS SEARCHED (Int.Cl.6) |
| | | | G03C |
| The present search report has been drawn up for all claims | | | |
| Place of search MUNICH | | Date of completion of the search 17 April 1997 | Examiner Okunowski, F |
| 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 | | | |

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