

Title (en)

Solid bleacher for silver halide colour photographic light sensitive material and the processing method thereof.

Title (de)

Festes Bleichmittel für farbphotographische lichtempfindliche Silberhalogenidmaterialien und Verarbeitungsverfahren dafür.

Title (fr)

Agent de blanchiment solide pour un matériau photographique en couleurs à l'halogénure d'argent sensible à la lumière.

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Application

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Priority

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Abstract (en)

A solid chemical and a process of processing a silver halide color photographic light-sensitive material comprising a support and provided thereon, a silver halide emulsion layer, using the solid chemical for bleaching the exposed and developed material; the chemical containing a ferric complex salt of a compound represented by the following Formula (A-I), (A-II), (A-III), (A-IV), (A-V) or (A-VI) and a compound represented by the following Formula (II) or (III): <CHEM> wherein A1, A2, A3 and A4 independently represent a hydrogen atom, a hydroxyl group, a lower alkyl group, -COOM, -PO3(M1)2, -CH2COOM2 or -CH2OH, provided that at least one of A1, A2, A3 and A4 represents -COOM, -PO3(M1)2, or -CH2COOM2, wherein M, M1, and M2 independently represent a hydrogen atom, an alkali metal, an ammonium group or an organic ammonium group; <CHEM> wherein A11, A12, A13 and A14 independently represent -CH2OH, -COOM3 or -PO3(M4)2; M3 and M4 independently represent a hydrogen atom, an ammonium group, an alkali metal or an organic ammonium group; and X represents an alkylene group having 2 to 6 carbon atoms or -(B1O)n-B2- wherein n is an integer of 1 to 8, and B1 and B2 independently represent an alkylene group having 1 to 5 carbon atoms; <CHEM> wherein A21, A22, A23 and A24 independently represent -CH2OH, -COOM5 or -PO3(M6)2; M5 and M6 independently represent a hydrogen atom, an alkali metal, an ammonium group or an organic ammonium group; X1 represents an alkylene group having 2 to 6 carbon atoms, a divalent cyclic organic group or - (B11O) n5-B12- wherein n5 is an integer of 1 to 8, and B11 and B12 independently represent an alkylene group having 1 to 5 carbon atoms; and n1, n2, n3 and n4 independently represent an integer of 1 or more; <CHEM> wherein R1 and R2 independently represent a hydrogen atom, an alkyl group or an aryl group; and L represents a group selected from the group consisting of <CHEM> <CHEM> wherein Y1, Y2 and Y3 independently represent an alkylene group or an arylene group; X2 and X3 independently represent an oxygen atom or a sulfur atom; and R3, R4, R5, R6 and R7 independently represent a hydrogen atom, an alkyl group or an aryl group; <CHEM> wherein R1, R2 and R3 independently represent a hydrogen atom, an alkyl group or an aryl group; L is the same with those denoted in Formula (A-IV); and W represents a divalent linking group; <CHEM> wherein R1, R2, R3, R6, R7, R8 and R9 independently represent a hydrogen atom, an alkyl group or an aryl group; R4 and R5 independently represent a hydrogen atom, a halogen atom, a cyano group, a nitro group, an acyl group, a sulfamoyl group, a carbamoyl group, an alkoxy carbonyl group, an allyloxy carbonyl group, a sulfonyl group, a sulfinyl group, an alkyl group or an aryl group, provided that R4 and R5 may be combined to form a 5- or 6-membered ring; A represents a carboxyl group, a phosphono group, a sulfo group, a hydroxyl group of an alkali metal salt or ammonium salt thereof; Y represents an alkylene group or an arylene group; and t and u independently represent an integer of 0 or 1; Formula (II) X2-A2-COOM2 wherein X2 represents a halogen atom, an amino group, a hydroxyl group, a methoxy group, -COOM2 or -SO3M2; and A2 represents an alkylene group, an alkenylene group or an arylene groups; and M2 represents a hydrogen atom, an alkali metal, an ammonium group or an organic ammonium group; Formula (III) NH2-A3-SO3M3 wherein A3 represents an alkylene group, an alkenylene group or an arylene groups; and M3 represents a hydrogen atom, an alkali metal, an ammonium group or an organic ammonium group.

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