DEFENSIVE PUBLICATION

UNITED STATES PATENT OFFICE

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PUBLISHED AUGUST 31, 1971

889 O.G. 1366

T889,019

ALPHA-IODO KETONES AND PHOTOGRAPHIC ELEMENTS CONTAINING THEM

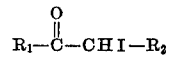
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Filed Oct. 1, 1970, Ser. No. 77,379
Int. Cl. G03c *1/00*
U.S. Cl. 96—88
No Drawing. 17 Pages Specification

Alpha-iodo ketones having an electron-attracting group in the beta position are light sensitive and when exposed to visible light decompose with evolution of free radicals. When coated on a photographic support with a component which changes color upon attack by free radicals, e.g., a starch-potassium iodide mixture or a triphenylmethane dye, a photographic element is obtained which is capable of print-out image formation upon exposure. The ketone can be coated above, below or with the starch-iodide component.

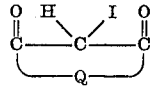
The light sensitive alpha-iodo ketones are of the structure

(a)



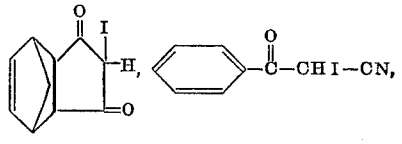
wherein R_1 is a hydrocarbon group such as aryl, e.g., phenyl or alkyl, e.g., lower alkyl; and R_2 is an electron-withdrawing group such as alkylcarbonyl, alkoxycarbonyl, arylcarbonyl, cyano or the like; or

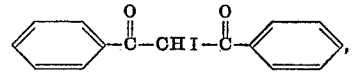
(b)

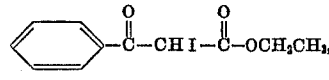


wherein Q represents the atoms necessary to complete a saturated or unsaturated hydrocarbon ring. The image can be fixed by removing the unexposed alpha-iodo ketone with a solvent.

Examples of the alpha-iodo ketones include:







and

