

DEFENSIVE PUBLICATION

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LIGHT SENSITIVE CHALCONE POLYESTERS

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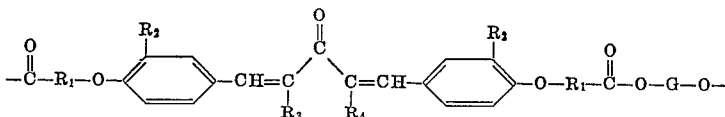
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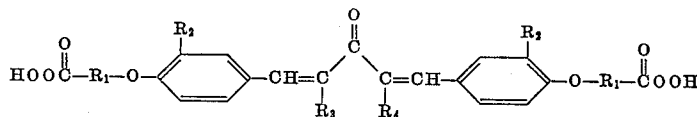
No Drawing. 21 Pages Specification

Light sensitive polymers are provided having repeat-
ing units of the formula:

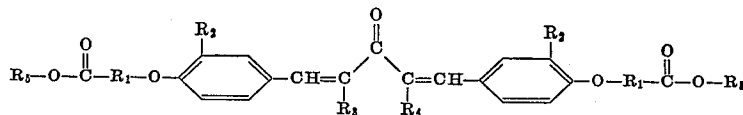


wherein R_1 is a lower alkylene radical of from 1 to 5 dihydric alcohol with a bis chalcone acid having the carbon atoms, preferably 1 to 2 carbon atoms, R_2 is hy-

G is the divalent residue of a dihydric alcohol. The polyesters thus constitute the polyester reaction product of a



or with a bis chalcone ester having the formula:



drogen or lower alkoxy having from 1 to 5 carbon atoms, R_3 and R_4 are each hydrogen or lower alkyl of 1 to 5 carbon atoms or together constitute the atoms necessary to complete a carbocyclic ring of from 4 to 7 ring carbon atoms, which ring may be substituted for example, with lower alkyl groups of from 1-5 carbon atoms, and

wherein R_5 is a lower alkyl radical of from 1 to 5 carbon atoms, preferably methyl or ethyl. The polyester is preferably obtained by an ester interchange reaction between the alcohol and the ester using conventional equipment and catalysts such as titanium isopropoxide, strontium oxide, magnesium-titanium esters, etc. The polyester may also be a copolyester, in which case at least 10 mole percent of the acid residues in the polyester are the bis chalcone residues.