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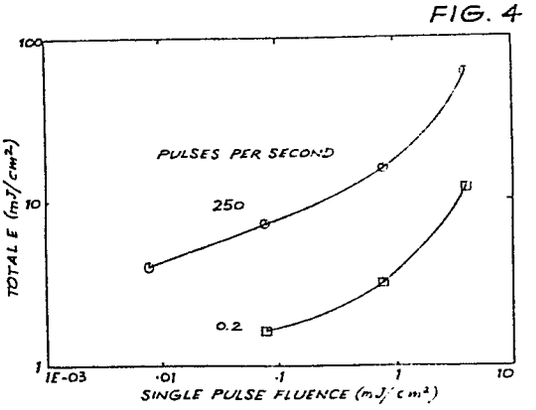
(54) **Laser curing of coatings and inks.**

(57) A method of curing polymer coatings by laser photochemistry in which UV laser irradiation of the coating containing a photoinitiator sensitive to a selected wavelength of the laser light effects a low energy cure of the coatings. The total energy to effect a cure is markedly reduced by applying a series of pulses of the laser light at a low single pulse fluence. A reduction of the single pulse fluence at a constant pulse repetition rate or a reduction of the pulse repetition rate at a constant single pulse fluence tends to further reduce the total energy required to effect a cure of the coating.

FIG. 4



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EUROPEAN SEARCH REPORT

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EP 86 30 3326

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 4)
X	DE-A-2 447 790 (SCM CORP.) * Page 1, paragraph 1; page 2, lines 9-10 *	1	B 05 D 3/06 B 41 M 7/00
X	* Page 11, paragraph 1, especially lines 16-19 *	1,13, 21	
X	* Page 12, line 22 *	22	
X	* Page 16, table 2 *	19	

TECHNICAL FIELDS SEARCHED (Int Cl.4)

B 05 D 3/00
B 05 D 7/00
B 41 M 7/00
C 08 J 3/00
C 09 D 7/00
B 29 C 35/00

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	25-02-1987	MCCONNELL C.H.

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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