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(54) **Laser annealing of metallic alloy substrates.**

(57) A smooth homogeneous surface is provided on an aluminium alloy disk substrate by rotating the substrate, heating the rotating substrate with a laser beam to melt a portion of the upper surface, including any second phase defects, and polishing the melted surface after it has solidified.

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EUROPEAN SEARCH REPORT

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Application number

EP 83 10 1764

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. ³)
A	FR-A-2 341 665 (UNITED TECHNOLOGIES) * claim 1; page 7, lines 20-30 *	1	C 22 F 3/00
A	FR-A-2 341 655 (UNITED TECHNOLOGIES) * claims 1,3,8,11 * & US - A - 4 122 240 (Cat. A,D)	1	
A	FR-A-2 393 075 (WESTERN ELECTRIC) * claims 1,3 *	1	

TECHNICAL FIELDS SEARCHED (Int. Cl. ³)

C 22 F 3/00
C 22 F 1/04
G 11 B 3/70

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	16-10-1984	LIPPENS M.H.

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
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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
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