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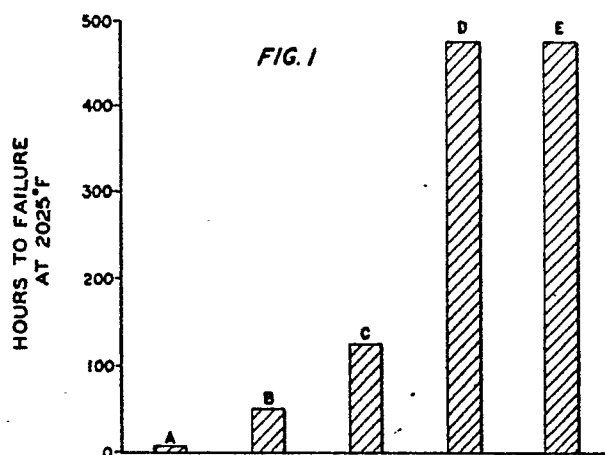
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L-1015 Luxembourg(LU)(54) **Thermal barrier coating system.**

(57) A thermal barrier coating system for the protection of nickel and cobalt base superalloys at elevated temperature comprises 7% yttria partially stabilized zirconia plasma sprayed in air on a plasma sprayed NiCoCrAlY bond coat which has been plasma sprayed in air.

**EP 0 266 299 A3**



EP 87 63 0212

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	EP-A-0 181 087 (WESTINGHOUSE ELECTRIC CORP.) * Page 5, lines 12-32; page 7, lines 20-32 * ---	1,2	C 23 C 4/02 C 23 C 4/06 C 23 C 4/08 C 23 C 4/10
A	DE-A-2 740 398 (UNION CARBIDE CORP.) * Claim 1; page 18, lines 5-10 * ---	1,2	
A	MATERIALS LETTERS, vol. 3, nos. 9/10, July 1985, pages 396-400, Elsevier Science Publishers B.V., Amsterdam, NL; R. SIVAKUMAR: "Phase stability and thermal shock resistance of plasma sprayed MgO.ZrO ₂ coatings" ---	1,2	
A	GB-A-2 159 838 (UNITED TECHNOLOGIES CORP.) * Page 2, lines 110-126; page 3, lines 35-47; page 3, lines 69-75 * ---	1,2	
A	WO-A-8 101 983 (UNITED TECHNOLOGIES CORP.) * Page 14, lines 20-34; page 16, lines 7-15 * -----	1,2	TECHNICAL FIELDS SEARCHED (Int. Cl.4) C 23 C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 16-03-1989	Examiner JOFFREAU P.O.
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 O : non-written disclosure 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 L : document cited for other reasons & : member of the same patent family, corresponding document			