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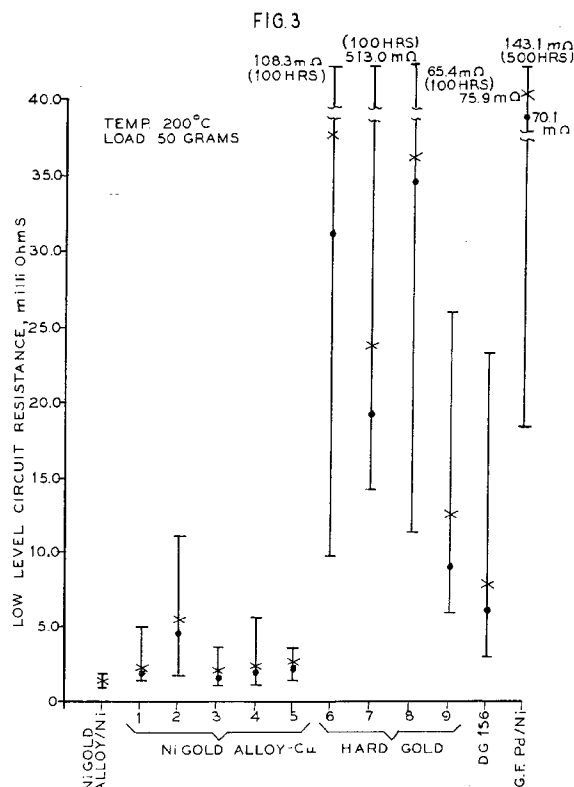
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(54) **Corrosion resistant high temperature contacts or electrical connectors and method of fabrication thereof.**

(57) The invention provides a composite material specifically adapted for use as high temperature corrosion resistant electrical connectors. A conductible nickel-base substrate alloy having corrosion resistance, strength and creep resistance is used to hold shape at 200°C. An interlayer of substantially pure nickel is electrolytically plated over the nickel-base substrate. A noble metal surface is diffusion bonded to the electrolytic nickel interlayer. The noble metal surface cannot be hardened by organic additives which accelerate corrosion at 200°C. Alternatively, if a copper-base substrate is used, a layer of wrought pure nickel is bonded to the substrate then a layer of electroplated nickel is used to overplate the wrought nickel and the copper-base substrate. A noble metal surface is then diffusion bonded to the electrolytic nickel layer.





European Patent
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EUROPEAN SEARCH REPORT

Application Number

EP 92 30 7943

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.5)
X	EP-A-0 318 831 (INCO LTD.) * the whole document * ---	1-10	H01R13/03 C25D3/52
X	EP-A-0 410 472 (YAZAKI CORP.)	1-2,5-8, 10	
Y	* claims 1-2,9 * ---	3,9	
Y,D A	US-A-4 956 026 (INCO LTD.) * column 8, line 16 - line 21 * ---	3,9 5,10	
A,D	US-A-4 505 060 (BELL ET AL.) * claims 1,7 * -----	1-10	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			H01R C25D
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 05 FEBRUARY 1993	Examiner S. Sibilla
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

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