



[12] Patent

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[21] Application No.: GCC/P/2001/1624 [22] Filing Date: 10/09/2001 [30] Priority: [31] Priority No. [32] Priority date [33] State 09/660,084 12/09/2000 US [72] Inventors: 1- Leslie Wilfred Benum, 2- Michael C. Oballa [73] Owner: NOVA Chemicals (International) S.A., Chemin Des Mazots 2, 1700 Fribourg, Switzerland [74] Agent: Suleiman Ibrahim Al-Ammar	[51] Int. Cl. ⁷ : C23C 8/18, 8/14, 30/00 [56] Cited Documents: - GB 2159542 A (MAN MASCHINENFABRIK AUGSBURG NUERNBERG AG) 04 December 1985 - GB 2169621 A (MAN MASCHINENFABRIK AUGSBURG NUERNBERG AG) 16 July 1986 - EP 0548405 A (KUBOTA CORPORATION) 30 June 1993 - US 5873951 A (WYNNS KIM A et al.) 23 February 1999

[54] PROCESS OF TREATING A STAINLESS STEEL MATRIX

[57] Abstract: Heat resistant stainless steel may be treated in a low oxidizing atmosphere in a heatsoak-heatsoak sequence to deplete its surface of Ni and Cr which tend to catalyze coking of hydrocarbons in contact with the surface of the stainless steel, and enrich it with elements which are inert to coke formation. Parts made of stainless steel, such as furnace tubes or coils, treated in accordance with the present invention when used have a significantly reduced rate of catalytic coking. Figure 1 best illustrates the advantages of the present invention.

No. of claims: 11

No. of figures: 2

