

IMPROVED COATING AND METHOD FOR MINIMIZING CONSUMPTION
OF BASE MATERIAL DURING HIGH TEMPERATURE SERVICE

ABSTRACT



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An improved coating and method for applying the coating to minimize the consumption of substrate material during high temperature service by formation of an intermediate metal aluminide layer. A layer of Ni or Co or combinations of Ni and Co are added to the substrate material as an overlay by a process such as electroplating or electroless plating. A diffusion aluminide is then formed at the surface by exposing the plated substrate to a source of aluminum at an elevated temperature.



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