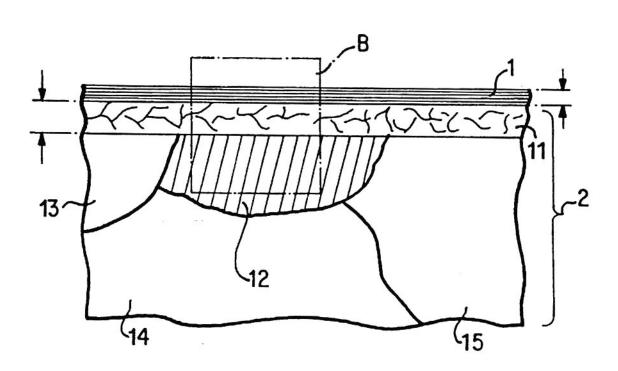
United States Patent [19] Grunke et al.			[11]	Patent N	lumber:	5,562,999	
			[45]	Date of l	Patent:	Oct. 8, 1996	
[54] [75]	COMPONENT MADE OF AN INTERMETALLIC COMPOUND WITH AN ALUMINUM DIFFUSION COATING Inventors: Richard Grunke, Muenchen; Lothar Peichl, Dachau; Walter Heinrich, Friedberg; Horst Pillhoefer, Roehrmoos; Frank Brungs, Dachau, all of Germany		200 Television (1990)	7,279 10/1971 4,679 4/1974 8,183 9/1979 4,482 4/1989 0,265 5/1989 0,159 4/1994	Ward		
		,	319	2721 12/1988 3839 11/1991 9147 2/1992	Germany . Japan . Japan .		
[21] [22] [86]	Appl. No.: PCT Filed: PCT No.:	T Filed: Jul. 7, 1993		Primary Examiner—John Zimmerman Attorney, Agent, or Firm—Evenson, McKeown, Edwards & Lenahan, P.L.L.C.			
	§ 371 Date: § 102(e) Date:	Mar. 9, 1995 Mar. 9, 1995	[57]		ABSTRACT		
[87]	PCT Pub. No.: WO94/01594 PCT Pub. Date: Jan. 20, 1994		A component made of an intermetallic compound of titanium and aluminum, or of alloys of such intermetallic compounds with alloying additions forming the base material, and with an aluminum diffusion coating on the base material, is provided. The component has, between the base material and the aluminum diffusion coating, a closed zone which is close to the surface and has a recrystallization structure. For this purpose, the component is cold-formed or slightly melted in a zone which is close to the surface, is then annealed at the recrystallization temperature, and finally has an aluminum diffusion coating applied to the recrystallized				
[30] Ju [51] [52]	Jul. 7, 1992 [DE] Germany						

17 Claims, 3 Drawing Sheets

zone. The process is used for components in engines and, particularly, for components in the hot-gas duct of an engine.



428/654, 660; 148/525, 537; 427/320; 416/241 R

[56]