(12)

## **Europäisches Patentamt European Patent Office**

Office européen des brevets



EP 0 712 939 A3 (11)

**EUROPEAN PATENT APPLICATION** 

(88) Date of publication A3: 29.05.1996 Bulletin 1996/22 (51) Int. Cl.6: C23C 2/00

(43) Date of publication A2: 22.05.1996 Bulletin 1996/21

(21) Application number: 95116671.9

(22) Date of filing: 23.10.1995

(84) Designated Contracting States: BE CH DE FR GB IT LI

(30) Priority: 24.10.1994 JP 257967/94

(71) Applicant: PRAXAIR S.T. TECHNOLOGY, INC. Danbury, Connecticut 06810-5113 (US)

(72) Inventors:

- · Nitta, Hideo Saitama, 355 (JP)
- Tsuyuki, Akira Kisarazu, Chiba, 292 (JP)
- (74) Representative: Schwan, Gerhard, Dipl.-Ing. Elfenstrasse 32 81739 München (DE)

## (54)Pot roll for continuous hot-dip galvanizing

A Pot roll for continuous hot-dip galvanizing used in a galvanizing bath, characterized by comprising a Pot roll surface having three spray coating layers composed of a alloy of high Co ratio or cermet of high ratio of said alloy as the first layer, a cermet containing a oxide, carbide or boride as the second layer and a ceramic of oxide group as the third layer.



## **EUROPEAN SEARCH REPORT**

Application Number EP 95 11 6671

Category	Citation of document with indication, where appropriate, of relevant passages		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)	
Υ	1983	JAPAN 7) [1164] ,25 January NITSUSHIN SEIKO ) 27	1,2	C23C2/00	
Y	EP-A-0 245 862 (UNIO * claims 1,4,5,8 *	ON CARBIDE CORPORATION)	1,2		
A	CHEMICAL ABSTRACTS, 25 June 1984 Columbus, Ohio, US; abstract no. 213954; NIPPON STEEL 'mecha hot-dip galvanizing page 243; * abstract * & JP-A-05 925 966 (M	j, anical parts for bath'	1		
A	DATABASE WPI Derwent Publications Ltd., London, GB; AN 93-297954 c38 & JP-A-05 209 259 (NIPPON STEEL CORP) , 20 August 1993 * abstract *		1	TECHNICAL FIELDS SEARCHED (Int. Cl. 6) C23C	
A	US-A-5 070 587 (AKI * claims 1-5 *	RA NAKAHIRA)	1		
A :	PATENT ABSTRACTS OF vol. 4 no. 98 (C-01) & JP-A-55 058360 (9) * abstract *	JAPAN B) ,15 July 1980 SATOOSEN) 1 May 1980, 	1		
	The present search report has be	cen drawn up for all claims			
Place of search Date of completion of the search				Examiner	
THE HAGUE 1 Apr		1 April 1996	El	sen, D	
CATEGORY OF CITED DOCUMENTS  T: theory or principl E: earlier patent do after the filing di Y: particularly relevant if combined with another document of the same category A: technological background				in the application	



## **EUROPEAN SEARCH REPORT**

Application Number EP 95 11 6671

Category	Citation of document with indication of relevant passages		Relevant to claim	CLASSIFICATION OF THI APPLICATION (Int.Cl.6)
Α	PATENT ABSTRACTS OF JAP vol. 18 no. 448 (C-1240 & JP-A-06 136505 (SUMI May 1994, * abstract *	) ,22 August 1994	1	
A	PATENT ABSTRACTS OF JAP vol. 17 no. 200 (C-1050 & JP-A-04 346693 (NITS December 1992, * abstract *	) ,20 April 1993	1	
A	DE-A-28 20 699 (KAWASAK * claim 1 *	,	1	
				TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			, , , , , , , , , , , , , , , , , , ,	
	The present search report has been dra Place of search	Wn up for all claims  Date of completion of the search		Examiner
	THE HAGUE	1 April 1996	Else	en, D
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 E: earlier patent docum after the filing date D: document cited in t L: document cited for	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	
			र्क : member of the same patent family, corresponding document	