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(51) International Patent Classification ⁶ : C23C 22/30, 22/33	A3	(11) International Publication Number: WO 97/21845 (43) International Publication Date: 19 June 1997 (19.06.97)
(21) International Application Number: PCT/US96/18555 (22) International Filing Date: 27 November 1996 (27.11.96) (30) Priority Data: 7/312951 30 November 1995 (30.11.95) JP (71) Applicant (for all designated States except US): HENKEL CORPORATION [US/US]; Suite 150, 140 Germantown Pike, Plymouth Meeting, PA 19462 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): ÔUE, Takashi [JP/JP]; Nihon Parkerizing Ôgami-ryo #9, 2784, Ogami, Hiratsuka-shi, Kanagawa Pref. (JP). MIZUNO, Kensuke [JP/JP]; Corpo Ito #202, 1-13-8, Higashi-Tawata, Hiratsuka-shi, Kanagawa Pref. (JP). (74) Agent: WISDOM, Norvell, E., Jr.; Henkel Corporation, Suite 150, 140 Germantown Pike, Plymouth Meeting, PA 19462 (US).		(81) Designated States: AU, BR, MX, NZ, TR, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> (88) Date of publication of the international search report: 14 August 1997 (14.08.97)
(54) Title: CHROMATE TREATMENT BATH COMPOSITION AND PROCESS FOR APPLICATION TO METALS		
(57) Abstract		
A chromate treatment bath composition, afforded by the introduction, into an aqueous solution containing hexavalent Cr ions and trivalent Cr ions, of a nonionic-anionic composite surfactant that has an anionic moiety and a nonionic moiety composed of a polyethylene glycol group or a group consisting of an ethylene oxide addition polymer, provides metal surfaces onto which a layer of the composition containing 5 to 150 mg/m² of total chromium is dried with a chromate film that has an excellent alkali resistance and water resistance, a high chromium fixing ratio, an excellent corrosion resistance, and an excellent paint film adherence.		

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INTERNATIONAL SEARCH REPORT

 International application No.
PCT/US96/18555

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) : C23C 22/30, 22/33

US CL : 148/ 258, 267

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 148/ 258, 267

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A,P	US, A, 5,507,884 (OGINO ET AL) 16 April 1996.	
A	US, A, 2,516,685 (DOUTY ETAL) 25 July 1950.	

☐ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

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Date of the actual completion of the international search

27 FEBRUARY 1997

Date of mailing of the international search report

09 JUN 1997

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