Title (en)

Use of steel powder based on Fe-Cr-Si for corrosion resistant coatings

Title (de)

Verwendung von Stahlpulver auf der Basis Fe-Cr-Si für korrosionsbeständige Beschichtungen

Title (fr)

Utilisation de poudre d' acier à base de Fe-Cr-Si pour revêtements résistants à la corrosion

Publication

EP 0933443 A1 19990804 (DE)

Application

EP 99101813 A 19990128

Priority

DE 19803084 A 19980128

Abstract (en)

High chromium and silicon content steel powder, for thermal coating of metal parts exposed to chlorine, chloride and/or sulfate corrosion. A powder of an alloy steel of composition (by wt.) more than 20 to 50% Cr, more than 3 to 10% Si, balance Fe and impurities is used for thermal coating of metal parts which are exposed, during use, to corrosive attack by chlorine-, chloride- and/or sulfate-containing media.

Abstract (de)

Die Erfindung betrifft Beschichtungen aus ferritischen Stahllegierungen auf Metall-Bauteilen, vornehmlich niedriglegiertem Stahl, vorzugsweise Rohren und Rohrwänden, zum Zwecke des Korrosionsschutzes gegen heiße chlor- und/oder chlorid- und/oder sulfathaltige Medien z.B. für Anlagenbauteile für die thermische Müllentsorgung oder Kupferraffinierung. <IMAGE>

IPC 1-7

C23C 4/08; C23C 4/04

IPC 8 full level

C22C 33/02 (2006.01); **C22C 38/02** (2006.01); **C22C 38/18** (2006.01); **C23C 4/04** (2006.01); **C23C 4/073** (2016.01)

CPC (source: EP)

C22C 33/0285 (2013.01); **C22C 38/02** (2013.01); **C22C 38/18** (2013.01); **C22C 38/34** (2013.01); **C23C 4/04** (2013.01); **C23C 4/073** (2016.01)

Citation (search report)

- [X] WO 9722729 A1 19970626 - BENDER MACHINE INC [US]
- [A] US 5643531 A 19970701 - KIM KANG-HYUNG [KR], et al
- [A] US 5066523 A 19911119 - STEINE HANS-THEO [CH], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 015, no. 248 (C - 0843) 25 June 1991 (1991-06-25)
- [A] PATENT ABSTRACTS OF JAPAN vol. 096, no. 005 31 May 1996 (1996-05-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 096, no. 001 31 January 1996 (1996-01-31)
- [PX] CHEMICAL ABSTRACTS, vol. 130, no. 5, 1998, Columbus, Ohio, US; abstract no. 55179, SCHROER, C. ET AL: "Corrosion resistant coating materials for heat exchanger tubes in waste incineration plants" XP002102081 & SCHR. FORSCHUNGSZENT. JUELICH, REIHE ENERGIETECH./ ENERGY TECHNOL. (1998), 5(2, MATERIALS FOR ADVANCED POWER ENGINEERING 1998, PT. 2), 789-798 CODEN: SFJTF2;ISSN: 1433-5522, 1998

Cited by

CN109628830A; EP1209246A3; EP4124670A1

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EP 0933443 A1 19990804; **EP 0933443 B1 20020403**; AT E215617 T1 20020415; DE 19803084 A1 19990729; DE 19803084 B4 20050728; DK 0933443 T3 20020708

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