

Title (en)
A PROCESS OF COATING METAL SURFACES TO PRODUCE A HIGHLY HYDROPHILIC, HIGHLY CORROSION RESISTANT SURFACE WITH BIORESISTANCE AND LOW ODOR IMPACT CHARACTERISTICS

Title (de)
VERFAHREN ZUM BESCHICHTEN VON METALLOBERFLÄCHEN ZUR HERSTELLUNG VON HOCH HYDROPHILE UND KORROSIONSBESTÄNDIGE ÜBERZÜGEN MIT BIOBESTÄNDIGE UND GERUCHSARME EIGENSCHAFTEN

Title (fr)
PROCEDE DE REVETEMENTS DE SURFACES METALLIQUES, DESTINE A PRODUIRE UNE SURFACE FORTEMENT HYDROPHILE ET FORTEMENT RESISTANTE A LA CORROSION, QUI EST BIORESISTANTE ET QUI DEGAGE PEU D'ODEURS

Publication
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Application
EP 96903490 A 19960111

Priority
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• US 37032395 A 19950110

Abstract (en)
[origin: WO9621752A1] A chromium-free process for providing a metal surface with the properties of corrosion resistance, hydrophilicity, low odor and bioresistance. The process includes initially treating the metal with a solution of fluoride, zirconium and a protic acid. Then, the metal is treated with a solution of water-soluble silicate at an alkaline pH. Rinses are optionally used after each stage, and an oven drying stage is preferred as the final step in the process.

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IPC 8 full level
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C23C 22/34 (2013.01); **C23C 22/83** (2013.01); **F28F 19/02** (2013.01)

Citation (search report)
• [Y] US 4313769 A 19820202 - FRELIN FRANK J, et al
• [Y] DE 3200245 A1 19830714 - SHOWA ALUMINUM CORP [JP]
• [PX] WO 9510641 A1 19950420 - CIRCLE PROSCO INC [US]
• [A] DE 1621467 A1 19710429 - HENKEL & CIE GMBH
• [A] EP 0459550 A1 19911204 - METALLGESELLSCHAFT AG [DE], et al
• [A] US 4273592 A 19810616 - KELLY TIMM L
• [Y] PATENT ABSTRACTS OF JAPAN vol. 006, no. 090 (C - 104) 27 May 1982 (1982-05-27) & JP S5719382 A 19820201 - SHOWA ALUMINIUM CO LTD
• See references of WO 9621752A1

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