

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

**EP 0795044 A1 19970917 (EN)**

Application

**EP 96903490 A 19960111**

Priority

- US 9600517 W 19960111
- 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.

IPC 1-7

**C23C 22/34**

IPC 8 full level

**C23C 22/34** (2006.01); **C23C 22/56** (2006.01); **C23C 22/66** (2006.01); **C23C 22/83** (2006.01); **F28F 19/02** (2006.01)

CPC (source: EP)

**C23C 22/34** (2013.01); **C23C 22/83** (2013.01); **F28F 19/02** (2013.01)

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 9621752 A1 19960718**; AU 4756596 A 19960731; BR 9606750 A 19980106; CA 2209924 A1 19960718; CZ 216697 A3 19971217; EP 0795044 A1 19970917; EP 0795044 A4 19980429; JP H10512327 A 19981124; MX 9705167 A 19980731

DOCDB simple family (application)

**US 9600517 W 19960111**; AU 4756596 A 19960111; BR 9606750 A 19960111; CA 2209924 A 19960111; CZ 216697 A 19960111; EP 96903490 A 19960111; JP 52185096 A 19960111; MX 9705167 A 19970709