

Title (en)

Process for providing a tortoise-shell chromatic effect to metallic substrates

Title (de)

Verfahren zum Bereitstellen eines schildkrötenpanzerartigen Farbeffekts auf Metalloberflächen

Title (fr)

Procédé de fournir un effet de coloration du type carapace de tortue sur des surfaces métalliques

Publication

EP 1336669 A2 20030820 (EN)

Application

EP 03075332 A 20030204

Priority

IT MI20020307 A 20020215

Abstract (en)

The present invention relates to a chemical process for providing a tortoise-shell chromatic effect to nickelated metallic substrates, which comprises heating the metallic substrate to 100-110 DEG C and subsequent buffering at a temperature of 40-110 DEG C with an oxidizing solution based on sodium thiosulfate, a reagent metal and an acidifying compound.

IPC 1-7

C23C 22/48; **C23C 22/58**; **C23C 22/50**; **C23C 22/52**; **C01B 17/64**

IPC 8 full level

B44F 1/08 (2006.01); **B44F 9/00** (2006.01); **C23C 18/42** (2006.01); **C23C 22/48** (2006.01); **C23C 22/50** (2006.01); **C23C 18/31** (2006.01); **C23C 22/52** (2006.01); **C23C 22/58** (2006.01); **C23C 28/00** (2006.01); **C23C 28/02** (2006.01)

CPC (source: EP US)

B44F 1/08 (2013.01 - EP US); **B44F 9/00** (2013.01 - EP US); **C23C 22/50** (2013.01 - EP US); **C23C 22/52** (2013.01 - EP US); **C23C 22/58** (2013.01 - EP US); **C23C 28/321** (2013.01 - EP US); **C23C 28/322** (2013.01 - EP US); **C23C 28/345** (2013.01 - EP US); **C23C 28/3455** (2013.01 - EP US)

Cited by

GB2464700A; GB2464700B; US9163312B2; WO2010046656A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

EP 1336669 A2 20030820; **EP 1336669 A3 20040630**; **EP 1336669 B1 20070328**; **EP 1336669 B9 20071003**; AT E358193 T1 20070415; DE 60312752 D1 20070510; ES 2285035 T3 20071116; ES 2285035 T4 20080516; IT MI20020307 A0 20020215; IT MI20020307 A1 20030818; JP 2003277946 A 20031002; US 2003159762 A1 20030828

DOCDB simple family (application)

EP 03075332 A 20030204; AT 03075332 T 20030204; DE 60312752 T 20030204; ES 03075332 T 20030204; IT MI20020307 A 20020215; JP 2003034653 A 20030213; US 35966703 A 20030206