

Title (en)
PLATING OR COATING METHOD FOR PRODUCING METAL-CERAMIC COATING ON A SUBSTRATE

Title (de)
PLATTIERUNGS- ODER BESCHICHTUNGSVERFAHREN ZUR HERSTELLUNG EINER METALL-KERAMIK-BESCHICHTUNG AUF EINEM SUBSTRAT

Title (fr)
PROCÉDÉ DE PLACAGE OU DE REVÊTEMENT POUR LA PRODUCTION D'UN REVÊTEMENT MÉTAL-CÉRAMIQUE SUR UN SUBSTRAT

Publication
EP 3149222 A4 20180606 (EN)

Application
EP 15798809 A 20150526

Priority
• US 201462003341 P 20140527
• IB 2015053902 W 20150526

Abstract (en)
[origin: WO2015181706A1] A plating or coating method for producing a metal-ceramic composite coating on a substrate is provided. The method comprises adding a sol of a ceramic phase to a plating solution or electrolyte and controlling the pH, degree of mixing, and/ or temperature of the plating solution or electrolyte. An item or surface comprising a substrate and a metal-ceramic composite coating on the substrate, the metal-ceramic composite coating comprising a ceramic phase of dispersed amorphous ceramic particles having an average diameter of from 1 to 100 nm is also provided.

IPC 8 full level
C23C 18/16 (2006.01); **C23C 18/34** (2006.01); **C23C 18/36** (2006.01); **C25D 1/00** (2006.01); **C25D 3/46** (2006.01); **C25D 3/56** (2006.01); **C25D 3/62** (2006.01); **C25D 5/00** (2006.01); **C25D 13/10** (2006.01); **C25D 15/00** (2006.01); **C25D 15/02** (2006.01); **C25D 21/02** (2006.01); **C25D 21/10** (2006.01); **C25D 21/12** (2006.01); **C25D 21/14** (2006.01)

CPC (source: EP US)
C23C 18/1662 (2013.01 - EP US); **C23C 18/1669** (2013.01 - EP US); **C23C 18/1676** (2013.01 - EP US); **C23C 18/34** (2013.01 - EP US); **C23C 18/36** (2013.01 - EP US); **C25D 3/46** (2013.01 - EP US); **C25D 3/56** (2013.01 - US); **C25D 3/562** (2013.01 - EP US); **C25D 3/565** (2013.01 - EP US); **C25D 3/62** (2013.01 - EP US); **C25D 15/00** (2013.01 - EP US); **C25D 21/10** (2013.01 - EP US); **C25D 21/12** (2013.01 - EP US); **C23C 18/1675** (2013.01 - EP US); **C25D 21/02** (2013.01 - EP US)

Citation (search report)
• [X] WO 2011002311 A1 20110106 - AUCKLAND UNISERVICIES LTD [NZ], et al
• [X] EP 2103718 A1 20090923 - NIHON PARKERIZING [JP]
• See references of WO 2015181706A1

Cited by
CN110016709A; CN115058746A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2015181706 A1 20151203; CN 107075683 A 20170818; EP 3149222 A1 20170405; EP 3149222 A4 20180606; TW 201610225 A 20160316; TW I674332 B 20191011; US 2017101722 A1 20170413

DOCDB simple family (application)
IB 2015053902 W 20150526; CN 201580039431 A 20150526; EP 15798809 A 20150526; TW 104116952 A 20150527; US 201515314174 A 20150526