

Title (en)

Multiple wear-resistant coating and method for its production

Title (de)

Mehrfache Verschleißschutzbeschichtung und Verfahren zu Ihrer Herstellung

Title (fr)

Revêtement multicouches anti-usure et procédé de fabrication

Publication

EP 2537959 B1 20131225 (DE)

Application

EP 11170936 A 20110622

Priority

EP 11170936 A 20110622

Abstract (en)

[origin: EP2537959A1] A coating layer comprises multilayer film (3) consisting of sublayers (4-7) of different hardness. The multilayer film comprises repeated sequence of hard and soft sublayers. The outermost sub-layer is a hard layer. The layer (2) with high hardness is formed using dispersed particles containing cobalt-molybdenum chromium silicon alloy, cobalt-chromium-tungsten-silicon alloy, metal (M)-chromium-aluminum-yttrium alloy, their oxide, nitride and/or boride (M is iron, cobalt or nickel). An independent claim is included for manufacture of coated component (1).

IPC 8 full level

C23C 28/02 (2006.01); **C23C 28/00** (2006.01)

CPC (source: EP)

C23C 28/321 (2013.01); **C23C 28/3215** (2013.01); **C23C 28/324** (2013.01); **C23C 28/34** (2013.01); **C23C 28/3455** (2013.01); **C23C 28/347** (2013.01); **C23C 28/42** (2013.01); **C23C 28/44** (2013.01)

Cited by

EP3845685A1; CN118127507A; US2015147185A1; CN104675442A; US9909428B2; CN113439150A; US11555248B2; US11946389B2

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)

EP 2537959 A1 20121226; EP 2537959 B1 20131225

DOCDB simple family (application)

EP 11170936 A 20110622