Title (en)

Method for producing unitary oxidic layers on metallic substrates and apparatus for carrying out the process

Title (de)

Verfahren zur Herstellung einheitlicher Oxidationsschichten auf metallischen Werkstücken und Vorrichtung zur Durchführung des Verfahrens

Title (fr)

Procédé pour la formation de couches d'oxydes unitaires sur des substrats métalliques et dispositif pour réaliser le procédé

Publication

EP 0655512 B1 20000719 (DE)

Application

EP 94116881 A 19941026

Priority

DE 4339404 A 19931118

Abstract (en)

[origin: EP0655512A1] To achieve unitary (uniform) oxidic (oxidation) layers and defined surface properties, a process is provided for producing oxidic layers on metallic substrates subsequent to a nitridation (nitriding) or nitrocarburation process, in which the oxygen potential present in the oxidising atmosphere is continually determined, the measurement result is compared with a predetermined set value and, in the case of deviations, the oxidising atmosphere is modified until the measurement result agrees with the set value. <IMAGE>

IPC 1-7

C23C 8/34

IPC 8 full level

C23C 8/34 (2006.01)

CPC (source: EP)

C21D 1/06 (2013.01); **C23C 8/34** (2013.01)

Cited by

CN1322161C; EP1122331A1; EP2497839A1; ITMI20110366A1; US7160576B2; WO03052158A1; WO2007009521A1; WO2023104385A1

Designated contracting state (EPC)

AT CH DE ES FR GB IT LI SE

DOCDB simple family (publication)

EP 0655512 A1 19950531; **EP 0655512 B1 20000719**; AT E194855 T1 20000815; DE 4339404 A1 19950524; DE 59409455 D1 20000824; ES 2149835 T3 20001116

DOCDB simple family (application)

EP 94116881 A 19941026; AT 94116881 T 19941026; DE 4339404 A 19931118; DE 59409455 T 19941026; ES 94116881 T 19941026