Title (en)

Galvanic coating system and method for operating the same

Title (de)

Galvanische Beschichtungsanlage und Verfahren zu deren Betrieb

Title (fr)

Installation de revêtement galvanique et son procédé de fonctionnement

Publication

EP 2692905 A3 20160106 (DE)

Application

EP 13176328 A 20130712

Priority

DE 102012106986 A 20120731

Abstract (en)

[origin: EP2692905A2] The galvanic coating system comprises a single process container (5) containing a neutrally coated counter electrode and processing solution containing reservoirs (9), and a feed line for alternatively feeding contents of the container and the reservoir. The feed line is provided between the container and the reservoir. The galvanic coating system further comprises a detection unit provided for detecting the state of the working solution based on its size during supply of the solutions and for recycle of the working solutions from the working container into the reservoir, and return line. The galvanic coating system comprises a single process container (5) containing a neutrally coated counter electrode and processing solution containing reservoirs (9), and a feed line for alternatively feeding contents of the container and the reservoir. The feed line is provided between the container and the reservoir. The galvanic coating system further comprises a detection unit provided for detecting the state of the working solution based on its size during supply of the solutions and for recycle of the working solutions from the working container into the reservoir, a return and an annular line connected to feed line under predetermined operating conditions using valves, and a pump arranged for transport of the contents to return and/or annular line. The reservoir is placed above the container. The return and/or annular line has a port for water. The container is present in a cup shape or a closed pipe shape, and comprises a purged medium and a filter unit for cleaning the container. An independent claim is included for a method for applying several layers on a switched workpiece as an electrode by processing solution and wiring the workpiece against a counter electrode and a flushing of the workpiece between the applications of two layers.

IPC 8 full level

C25D 5/10 (2006.01); **C25D 17/00** (2006.01); **C25D 17/02** (2006.01); **C25D 21/06** (2006.01); **C25D 21/08** (2006.01); **C25D 21/12** (2006.01); **C25D 21/18** (2006.01); C25D 5/12 (2006.01)

CPC (source: EP US)

C25D 5/10 (2013.01 - EP US); **C25D 17/00** (2013.01 - EP); **C25D 17/02** (2013.01 - EP); **C25D 21/06** (2013.01 - EP); **C25D 21/08** (2013.01 - EP); **C25D 21/12** (2013.01 - EP); **C25D 21/18** (2013.01 - EP); C25D 5/12 (2013.01 - EP US)

Citation (search report)

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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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2692905 A2 20140205; **EP 2692905 A3 20160106**; DE 102012106986 A1 20140206; EA 028777 B1 20171229; EA 201300781 A1 20140228

DOCDB simple family (application)

EP 13176328 A 20130712; DE 102012106986 A 20120731; EA 201300781 A 20130730