

Title (en)

Use of a solution containing phosphonic acid and/or phosphonic acid derivatives during the degreasing of metal surfaces, degreasing solution and method for degreasing a metal surface

Title (de)

Verwendung einer phosphonsäure- und/oder phosphonsäurederivathaltigen Lösung bei der Entfettung von Metalloberflächen, entfettende Lösung und Verfahren zur Entfettung einer Metalloberfläche

Title (fr)

Utilisation d'une solution contenant de l'acide phosphonique et/ou un dérivé d'acide phosphonique au dégraissage de surfaces métalliques, solution dégraissante et procédé de dégraissage d'une surface métallique

Publication

EP 2671972 B1 20210505 (DE)

Application

EP 13168021 A 20130516

Priority

DE 102012104951 A 20120608

Abstract (en)

[origin: EP2671972A1] Use of phosphonic acid solution (S1) containing phosphonic acid and/or its derivative for degreasing metal surface e.g. iron or steel surface during hot-dip galvanizing process is claimed. Independent claims are included for the following: (1) degreasing solution used for degreasing metal surface, which contains phosphonic acid and/or its derivative, and a surfactant; (2) use of degreasing solution for degreasing metal surface; and (3) degreasing of metal surface.

IPC 8 full level

C23G 1/06 (2006.01); **C11D 1/34** (2006.01); **C11D 11/00** (2006.01); **C23G 1/08** (2006.01)

CPC (source: EP)

C23G 1/088 (2013.01)

Citation (examination)

EP 0789094 A1 19970813 - NIPPON PAINT CO LTD [JP]

Cited by

CN104862719A

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 2671972 A1 20131211; **EP 2671972 B1 20210505**; DE 102012104951 A1 20131212; ES 2871404 T3 20211028; PL 2671972 T3 20211102

DOCDB simple family (application)

EP 13168021 A 20130516; DE 102012104951 A 20120608; ES 13168021 T 20130516; PL 13168021 T 20130516