

Title (en)
GALVANIZED PRODUCT & METHOD

Title (de)
GALVANISIERTES PRODUKT UND VERFAHREN

Title (fr)
PRODUIT GALVANISÉ ET PROCÉDÉ

Publication
EP 3211113 A1 20170830 (EN)

Application
EP 16157254 A 20160225

Priority
EP 16157254 A 20160225

Abstract (en)
A galvanized product (10) having a galvanized surface (14) comprising a zinc carbonate layer (24) that comprises at least one type of metallic ion of a metal that is more noble than zinc in a delivery condition of said galvanized product (10).

IPC 8 full level
C23C 2/26 (2006.01); **C23C 22/53** (2006.01)

CPC (source: EP US)
C23C 2/26 (2013.01 - EP US); **C23C 22/53** (2013.01 - EP)

Citation (applicant)
US 3767478 A 19731023 - DOLLAR D, et al

Citation (search report)
• [XAI] US 6231686 B1 20010515 - EIERMAN GEORGE R [US]
• [IJ] US 2005003091 A1 20050106 - SCHOENNENBECK MARIANNE [DE], et al
• [XAI] DAVID LINDSTRÅM ET AL: "Long-term use of galvanized steel in external applications. Aspects of patina formation, zinc runoff, barrier properties of surface treatments, and coatings and environmental fate", ENVIRONMENTAL MONITORING AND ASSESSMENT ; AN INTERNATIONAL JOURNAL DEVOTED TO PROGRESS IN THE USE OF MONITORING DATA IN ASSESSING ENVIRONMENTAL RISKS TO MAN AND THE ENVIRONMENT, KLUWER ACADEMIC PUBLISHERS, DO, vol. 173, no. 1 - 4, 7 March 2010 (2010-03-07), pages 139 - 153, XP019872054, ISSN: 1573-2959, DOI: 10.1007/S10661-010-1377-8

Cited by
NL2022279B1; CN113474480A; US2022074037A1; WO2020130833A1

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 3211113 A1 20170830; DK 3420114 T3 20210215; EP 3420114 A1 20190102; EP 3420114 B1 20201209; ES 2853205 T3 20210915; PL 3420114 T3 20210628; WO 2017144721 A1 20170831

DOCDB simple family (application)
EP 16157254 A 20160225; DK 17707552 T 20170227; EP 17707552 A 20170227; EP 2017054509 W 20170227; ES 17707552 T 20170227; PL 17707552 T 20170227