

Title (en)  
ZINCATE ZINC PLATING BATH

Title (de)  
AUF ZINKAT BASIERENDES VERZINKUNGSBAD

Title (fr)  
BAIN DE ZINGAGE À BASE DE ZINCATE

Publication  
**EP 2357268 A4 20121205 (EN)**

Application  
**EP 09826073 A 20091110**

Priority  
• JP 2009069108 W 20091110  
• JP 2008289115 A 20081111

Abstract (en)  
[origin: EP2357268A1] To provide a zincate zinc plating bath capable of efficiently forming a zinc plating film with high brightness and high qualities even at a low current density. The zincate zinc plating bath is used in electroplating for depositing a metal containing at least zinc and forming a zinc plating film. It contains a primary brightener having a function of reducing the size crystals of the metal to be deposited and a plating accelerator containing a heterocyclic compound having a predetermined structure such as 2,5-dimercapto-1,3,4-thiadiazole.

IPC 8 full level  
**C25D 3/22** (2006.01)

CPC (source: EP US)  
**C25D 3/22** (2013.01 - EP US)

Citation (search report)  
• [XII] WO 9950479 A1 19991007 - WM CANNING LIMITED [GB], et al  
• See references of WO 2010055825A1

Designated contracting state (EPC)  
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 SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2357268 A1 20110817; EP 2357268 A4 20121205**; JP 5419021 B2 20140219; JP WO2010055825 A1 20120412;  
US 2011210007 A1 20110901; WO 2010055825 A1 20100520

DOCDB simple family (application)  
**EP 09826073 A 20091110**; JP 2009069108 W 20091110; JP 2010537773 A 20091110; US 200913126888 A 20091110