

Title (en)

Zinc plating baths and additives therefor.

Title (de)

Zinkbäder und Zusätze hierfür.

Title (fr)

Bains de zingage et additifs pour ceux-ci.

Publication

EP 0037634 A1 19811014 (EN)

Application

EP 81300833 A 19810227

Priority

GB 8006402 A 19800228

Abstract (en)

An alkaline, cyanide-free zinc plating bath contains a betaine such as N-benzyl pyridinium betaine and a reaction product of an epihalohydrin and a heterocyclic nitrogen compound such as imidazole.

IPC 1-7

C25D 3/22

IPC 8 full level

C25D 3/22 (2006.01)

CPC (source: EP)

C25D 3/22 (2013.01)

Citation (search report)

- GB 1394637 A 19750521 - M & T CHEMICALS INC
- GB 2009790 A 19790620 - M & T CHEMICALS INC
- GB 1381939 A 19750129 - DU PONT
- US 4169772 A 19791002 - LOWERY RICHARD K [US], et al
- US 4166778 A 19790904 - ACIMOVIC SIMEON [DE], et al
- US 4093523 A 19780606 - HENRICKS JOHN A, et al
- US 4045306 A 19770830 - SENGE GERD, et al

Cited by

CN106435659A; EP0987349A1; US6238542B1; US9325037B2; WO0014305A1; US6652728B1; US9269998B2; US11664547B2

Designated contracting state (EPC)

BE DE FR GB IT NL

DOCDB simple family (publication)

EP 0037634 A1 19811014

DOCDB simple family (application)

EP 81300833 A 19810227