

Title (en)
ORGANIC SOLUTION FOR PHOSPHATING METAL SURFACES

Publication
EP 0089456 B1 19850828 (DE)

Application
EP 83100471 A 19830120

Priority
DE 3209829 A 19820318

Abstract (en)
[origin: US4451301A] Homogeneous phosphating solutions comprise low-boiling halogenated hydrocarbons, aqueous phosphoric acid, methanol or an alcohol mixture consisting predominantly of methanol, nitroaromatics, ureas, optional conventional stabilizers, inhibitors, or accelerators, and, additionally, 0.01-2.0% by weight of formic acid esters as activating crystal nucleators.

IPC 1-7
C23C 22/03

IPC 8 full level
C23C 22/03 (2006.01)

CPC (source: EP US)
C23C 22/03 (2013.01 - EP US)

Cited by
EP0361375A1; EP0276371A1; KR100731202B1

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0089456 A1 19830928; EP 0089456 B1 19850828; AT E15235 T1 19850915; DE 3209829 A1 19831006; DE 3360629 D1 19851003; DK 119683 A 19830919; DK 119683 D0 19830315; GR 77947 B 19840925; JP S58167779 A 19831004; US 4451301 A 19840529

DOCDB simple family (application)
EP 83100471 A 19830120; AT 83100471 T 19830120; DE 3209829 A 19820318; DE 3360629 T 19830120; DK 119683 A 19830315; GR 830170753 A 19830310; JP 4163083 A 19830315; US 47579983 A 19830316