

Title (en)
PROCESS FOR APPLYING CONVERSION COATINGS TO ZINC OR ZINC ALLOY SURFACES

Publication
EP 0240943 B1 19901010 (DE)

Application
EP 87104930 A 19870402

Priority
GB 8608508 A 19860408

Abstract (en)
[origin: US4801337A] An improved composition and process for forming a corrosion-resistant complex oxide coating on a zinc or zinc alloy surface incorporates in an aqueous alkaline composition of pH value greater than 11 at least three complexed polyvalent metals, one of which is trivalent chromium.

IPC 1-7
C23C 22/60

IPC 8 full level
C23C 22/60 (2006.01)

CPC (source: EP KR US)
C23C 22/60 (2013.01 - EP US); **C23F 11/00** (2013.01 - KR); **C23C 2222/10** (2013.01 - EP US)

Cited by
DE10223022A1; EP2458032A1; ITMI20102198A1; EP2503025A1; IT201800009491A1; US9228088B2; US9534301B2; WO2012126734A1

Designated contracting state (EPC)
BE DE ES FR IT NL SE

DOCDB simple family (publication)
EP 0240943 A2 19871014; EP 0240943 A3 19881026; EP 0240943 B1 19901010; CA 1284762 C 19910611; CN 87103418 A 19871111; DE 3711095 A1 19871015; DE 3765445 D1 19901115; ES 2018188 B3 19910401; GB 2188946 A 19871014; GB 2188946 B 19900801; GB 8608508 D0 19860514; GB 8707748 D0 19870507; KR 870010219 A 19871130; US 4801337 A 19890131

DOCDB simple family (application)
EP 87104930 A 19870402; CA 534152 A 19870408; CN 87103418 A 19870407; DE 3711095 A 19870402; DE 3765445 T 19870402; ES 87104930 T 19870402; GB 8608508 A 19860408; GB 8707748 A 19870401; KR 870003347 A 19870408; US 4328887 A 19870402