

Title (en)
Tinning of copper tubes

Title (de)
Verzinnung von Kupferrohren

Title (fr)
Etamage de tubes en cuivre

Publication
EP 0915183 B1 20031119 (DE)

Application
EP 98118085 A 19980924

Priority
DE 19749382 A 19971107

Abstract (en)
[origin: EP0915183A1] Chemical tin plating from a bath containing methane-sulfonic acid and/or one of its salts. Preferred Features: Plating is carried out under an inert gas atmosphere using a tin bath which contains tin methane-sulfonate, as the tin source, and which is regenerated by membrane electrolysis.

IPC 1-7
C23C 18/31; E03C 1/02

IPC 8 full level
C23C 18/31 (2006.01); **E03B 7/09** (2006.01); **E03C 1/02** (2006.01)

CPC (source: EP)
C23C 18/31 (2013.01); **E03B 7/006** (2013.01)

Cited by
EP2034054A1; FR2832160A1; AU2003200591B2; EP1347078A3; US7730618B2; EP1571235A2; WO03042342A3; WO2006029823A3

Designated contracting state (EPC)
AT BE DE DK ES FI FR GB GR IT NL PT SE

DOCDB simple family (publication)
EP 0915183 A1 19990512; EP 0915183 B1 20031119; AT E254676 T1 20031215; DE 19749382 A1 19990527; DE 59810213 D1 20031224;
DK 0915183 T3 20040315; ES 2210639 T3 20040701; PL 329580 A1 19990510; PT 915183 E 20040430

DOCDB simple family (application)
EP 98118085 A 19980924; AT 98118085 T 19980924; DE 19749382 A 19971107; DE 59810213 T 19980924; DK 98118085 T 19980924;
ES 98118085 T 19980924; PL 32958098 A 19981106; PT 98118085 T 19980924