

Title (en)

PROCESS FOR THE ELECTRODEPOSITION OF COMPOSITE TIN-GRAPHITE OR TIN-LEAD GRAPHITE LAYERS, AND BATHS USED THEREFOR

Publication

EP 0195995 B1 19890927 (DE)

Application

EP 86103563 A 19860317

Priority

DE 3511621 A 19850329

Abstract (en)

[origin: US4652349A] For the production of tin-graphite or respectively tin/lead-graphite layers, it is known to electrodeposit a tin or respectively tin/lead layer and to mechanically incorporate graphite in the boundary zone. In accordance with the method of the invention, the tin-graphite or tin/lead-graphite layer is produced electrolytically in a single operation, operating with an electroplating bath on a strongly acid basis in which graphite powder is dispersed by means of an acid-stable wetting agent, and at temperatures of up to 35 DEG C. In the respective electroplating bath the solution has a pH value equal to or less than 2 and contains in acid-stable wetting agent for graphite.

IPC 1-7

C25D 15/02

IPC 8 full level

H01R 43/00 (2006.01); **C25D 15/02** (2006.01)

CPC (source: EP US)

C25D 15/02 (2013.01 - EP US)

Cited by

CN103080381A; GB2348210A; GB2348210B; WO2016127992A1; WO2012031792A1

Designated contracting state (EPC)

CH DE FR GB LI

DOCDB simple family (publication)

EP 0195995 A1 19861001; **EP 0195995 B1 19890927**; DE 3665886 D1 19891102; JP S61227196 A 19861009; US 4652349 A 19870324

DOCDB simple family (application)

EP 86103563 A 19860317; DE 3665886 T 19860317; JP 6827786 A 19860326; US 84298086 A 19860324