

Title (en)

Strip shaped composite material and process for making it

Title (de)

Bandförmiges Verbundmaterial und Verfahren zu dessen Herstellung

Title (fr)

Matériau composite en bande et procédé de sa fabrication

Publication

EP 0849373 B1 20010321 (DE)

Application

EP 97121506 A 19971206

Priority

DE 19652987 A 19961219

Abstract (en)

[origin: EP0849373A1] In a composite strip of metal or metal alloy, preferably copper, iron, nickel, zinc or their alloys, with an electroplated or hot dip coated pure tin or tin alloy layer and an intermetallic phase formed between the two, 1-50 at.%, preferably 6-30 at.%, carbon is incorporated in the tin coating outer surface region of up to 2 μ m thickness. Also claimed are: (i) the production of the above composite strip, in which a tinned metal strip is pulled, with a dwell time of 1-130 minutes, preferably 2-4 minutes, through a hot oil bath at above the tinned layer m. pt. or is sprayed with oil immediately after tinning, the oil being a natural or synthetic paraffin, ester and/or fatty acid based oil with usual additives; and (ii) an apparatus for carrying out the above process, comprising an unwinding reel (6), a hot oil passageway (3), a thermal lock chamber (10), a cold oil passageway (5) and a winding reel (14).

IPC 1-7

C23C 2/08; **C25D 5/50**

IPC 8 full level

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CPC (source: EP US)

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Cited by

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