

Title (en)
PROCESS FOR HOT GALVANIZING IRON AND STEEL ARTICLES

Publication
EP 0026757 B1 19850220 (DE)

Application
EP 80890108 A 19800924

Priority
AT 630679 A 19790926

Abstract (en)
[origin: EP0026757A1] 1. Process for galvanizing iron or steel tubes in automatic galvanizing plants, in which the tubes to be galvanized are, after degreasing, pickling, rinsing, applying fluxes and, if desired, drying, dipped into a bath of molten zinc and after removal from the zinc bath, are gas wiped and subsequently quenched, characterised in that the tubes to be galvanized are dipped into the zinc bath until having taken up a zinc coating weight/m**2 which, after gas wiping with air and/or steam, corresponds to a zinc coating weight/m**2 which is less than the desired zinc coating weight/m**2 and at maximum corresponds to 95% of the desired zinc coating weight/m**2 , that after removal from the zinc bath the galvanized tubes are kept at temperatures above 250 degrees C until the zinc deposit has increased to the desired weight/m**2 , thereby obtaining an intermetallic layer of zinc-iron-alloy over a part of at least 60% of the thickness of the zinc coating by the diffusion of iron into the zinc and providing an outermost layer of the zinc coating, consisting of pure zinc, and that subsequently the galvanized tubes are quenched in a manner known per se.

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C23C 2/06

IPC 8 full level
C23C 2/06 (2006.01); **C23C 2/28** (2006.01)

CPC (source: EP US)
C23C 2/06 (2013.01 - EP); **C23C 2/261** (2022.08 - EP US); **C23C 2/29** (2022.08 - EP US)

Citation (examination)

- "Chem. Technologie", v. K. Winneck und L. Kuchler, 1973, S. 641
- "Lueger Lexikon der Technik", 1968, Bd. 9, S. 70/71
- "Hütte, Taschenbuch für Eisenhüttenleute", 1961, S. 1156

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EP4116456A1; EP0819598A3; EP0113255A3; US2013280548A1; DE102007026061A1; DE19646362A1; DE19646362C2; US6231695B1

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