

Title (en)
RECYCLING OF HOT-DIP ZINC GALVANIZING BATH

Title (de)
REZYKLIERUNG VON FEUERVERZINKUNGSBÄDERN

Title (fr)
RECYCLAGE DE BAIN DE ZINCAGE A CHAUD

Publication
EP 1721021 B1 20070606 (EN)

Application
EP 05715245 A 20050201

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Abstract (en)
[origin: WO2005083134A1] The present invention relates to a process to recover zinc from zinc containing residues or scraps, especially those produced by hot-dip galvanizing lines. The process comprises the steps of: - selecting a Si-bearing compound which, at a temperature up to 700 °C, either reacts with zinc, either melts, or dissolves in zinc; - adding the selected Si-bearing compound to an Fe-containing molten zinc bath, whereby the iron in the zinc bath reacts to produce an Fe-Si matte; - allowing the Zn bath to settle, whereby the Fe-Si matte raises to the surface of the bath, and - collecting the Fe-Si matte from the surface of the zinc bath.

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