

Title (en)

Process and apparatus for hot dip coating of metallic strip, especially steel strip

Title (de)

Verfahren und Einrichtung zum Schmelztauchbeschichten von Metallsträngen, insbesondere von Stahlband

Title (fr)

Procédé et appareil de revêtement au trempe de bandes métalliques, notamment d'une bande d'acier

Publication

**EP 1205572 B1 20100303 (DE)**

Application

**EP 01125594 A 20011026**

Priority

DE 10055979 A 20001111

Abstract (en)

[origin: EP1205572A1] Process for hot dip coating of steel strands (1) comprises: (i) feeding the strands vertically through a melting vessel containing a molten coating metal (2) and a connected guiding channel (5); (ii) producing induction currents in the coating metal using an electromagnetic field; and (iii) applying an electromotive force to interact with the electromagnetic field to retain the coating metal. To guide the metal strand in the guiding channel without contact, a force equilibrium is adjusted between the electromagnetic field in the metal strands and in the guiding channel by rotating an inductor (4) about its longitudinal axis. An Independent claim is also included for a device for hot dip coating of steel strands. Preferred Features: The induction forces affecting the deformation of the steel strands and/or the induction forces affecting the guiding channel are measured and the measured values are processed in a control system to an adjusting signal for rotating the inductor.

IPC 8 full level

**C23C 2/24** (2006.01)

CPC (source: EP US)

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