

Title (en)

ELECTRO-MAGNETIC PLUGGING MEANS FOR HOT DIP COATING POT

Title (de)

ELEKTROMAGNETISCHER VERSCHLUSS FÜR HEISSTAUCHBESCHICHTUNGSTOPF

Title (fr)

BOUCHON ELECTROMAGNETIQUE POUR CUVE D'ENDUCTION A CHAUD PAR TREMPAGE

Publication

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Application

EP 95925672 A 19950726

Priority

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Abstract (en)

[origin: WO9603533A1] A hot dip coating pot (2) having a strip inlet passage (3) and electro-magnetic plugging means to prevent leakage of bath liquid from the pot through that passage, wherein: the plugging means comprises two magnetic field generators (7) disposed one on each side of the passage; each generator projects an oscillating magnetic field into the passage from at least two poles of opposite polarity that are adjacent the passage and spaced apart in the through direction of the passage; the said at least two poles of each generator are respectively in substantial alignment with the corresponding poles of the other in the transverse direction of the passage; the magnetic fields projected by the generators have flux patterns which are substantially mirror images with reference to a plane of reflection coinciding with a centre plane of the passage; and both generators operate at a frequency of more than seven kiloHertz. When no strip is present the fields combine and extend transversely of the passage. When a strip is present the fields not only plug the passage but also provide restraining forces to prevent deviation of the strip from its intended pass line.

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IPC 8 full level

C23C 2/00 (2006.01); **C23C 2/24** (2006.01)

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Citation (search report)

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- See references of WO 9603533A1

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