

Title (en)
Production of heat transfer element.

Title (de)
Herstellung eines Wärmeübertragungselements.

Title (fr)
Fabrication d'un élément de transfert de chaleur.

Publication
EP 0612858 A3 19950419 (EN)

Application
EP 94301175 A 19940218

Priority
GB 9303655 A 19930223

Abstract (en)
[origin: EP0612858A2] A heat transfer element (2) for use in boiling a liquid is produced by spraying a substrate, such as a heat exchanger tube, with a plasma of liquified metal particles and concurrently spraying the substrate with liquid carbon dioxide to provide a cooling effect. Preferably the metal particle spray (4) and the carbon dioxide spray (8) are spaced apart, and there is relative movement between the sprays and the substrate, such that a given area of the substrate is precooled by the cold carbon dioxide just prior to liquified metal particles impinging thereon. A shroud (6) may assist in directing the liquid carbon dioxide first onto the substrate, then into the spray of liquified metal particles. <IMAGE>

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C23C 4/12; C23C 4/08; F28F 13/18

IPC 8 full level
C23C 4/12 (2006.01); **F28F 13/18** (2006.01)

CPC (source: EP)
C23C 4/12 (2013.01); **F28F 13/187** (2013.01)

Citation (search report)

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US6303191B1; WO9833031A1

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DE FR GB

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