

Title (en)
Spray deposition of metal.

Title (de)
Sprühauftrag eines Metalles.

Title (fr)
Dépôt par pulvérisation d'un métal.

Publication
EP 0151511 A1 19850814 (EN)

Application
EP 85300138 A 19850109

Priority
GB 8400661 A 19840111

Abstract (en)
A process of producing a metal body comprises atomising a source of molten metal and directing the atomised molten metal particles, as a spray, onto a cooler substrate, on which the molten metal particles splat and build up to form a deposit, characterised by controlling the spray conditions so that the whole, or most, of the surface of the deposit is molten throughout the process. The control may be in response to visual monitoring of the surface, and may also ensure that the molten layer does not become so thick that bulk lateral flow becomes possible. Thereby, segregation-free 'incremental solidification' is possible. The product is typically strip or sheet.

IPC 1-7
C23C 4/12; B05D 1/08

IPC 8 full level
C23C 4/12 (2006.01)

CPC (source: EP)
C23C 4/12 (2013.01); **C23C 4/123** (2016.01)

Citation (search report)

- GB 1262471 A 19720202 - NAT RES DEV [GB]
- GB 2115014 A 19830901 - NAT RES DEV
- US 3995073 A 19761130 - KUONEN FREDERICK L, et al
- DE 2823817 A1 19781214 - SECR DEFENCE BRIT
- DE 2655730 A1 19770616 - GEN ELECTRIC
- DD 87453 A

Cited by
EP0852976A1; CN1045636C; WO9209715A1; WO9418352A1

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DE FR GB IT

DOCDB simple family (publication)
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