

Title (en)

Use of a gas mixture and method for electric arc spraying

Title (de)

Verwendung einer Gasmischung und Verfahren zum Lichtbogenspritzen

Title (fr)

Utilisation d'un mélange gazeux et procédé de pulvérisation à arc électrique

Publication

EP 1674590 A1 20060628 (DE)

Application

EP 05027513 A 20051215

Priority

DE 102004061569 A 20041221

Abstract (en)

A gas mixture containing hydrogen is used as carrier gas for electric arc spraying. An independent claim is also included for a method of electric arc spraying in which a spray material is melted in an electric arc, atomised in hydrogen-containing carrier gas to form spray particles and transported to the workpiece with the carrier gas so as to form a coating.

IPC 8 full level

C23C 4/12 (2006.01)

CPC (source: EP)

C23C 4/131 (2016.01)

Citation (applicant)

- DE 19956622 A1 20000525 - MAN B & W DIESEL AS [DK]
- EP 1361339 A1 20031112 - GEN ELECTRIC [US]
- US 2003049384 A1 20030313 - LIU JEAN H [US], et al
- EP 0924968 A1 19990623 - AIR LIQUIDE [FR]
- US 5271869 A 19931221 - NICLOUD DANIEL [FR], et al
- DE 2020709 A1 19701112 - GEN ELECTRIC

Citation (search report)

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- [X] EP 1361339 A1 20031112 - GEN ELECTRIC [US]
- [XP] DE 10336989 A1 20050310 - MTU AERO ENGINES GMBH [DE], et al
- [X] US 2003049384 A1 20030313 - LIU JEAN H [US], et al
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- [A] US 2003168303 A1 20030911 - ELLIS LAWRENCE EDWARD [US], et al
- [A] CH 521228 A 19720415 - MONTEDISON SPA [IT]
- [A] DE 3533966 C1 19861218 - MATTHAEUS HEINZ DIETER
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EP2803751A1; DE102013012662A1

Designated contracting state (EPC)

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