

Title (en)

CONSUMABLE ELECTRODE WITH COMPOSITE CORE AND PROCESS FOR PRODUCING THE SAME

Title (de)

VERBRAUCHBARE ELEKTRODE MIT ZUSAMMENGESETZTEM KERN UND HERSTELLUNGSPROZESS DAFÜR

Title (fr)

ELECTRODE CONSOMMABLE À ÂME COMPOSITE ET PROCÉDÉ DE FABRICATION ASSOCI

Publication

**EP 2104581 A2 20090930 (EN)**

Application

**EP 07869646 A 20071220**

Priority

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- US 87131006 P 20061221

Abstract (en)

[origin: WO2008079974A2] A wire-like product (10) for use as a feedstock in metal or plasma spraying or welding includes a metal case (12) and a composite core (14) in the case, with the core being partially sintered and containing enough metal to conduct an electrical current. To form the wire-like product, a metal tubular segment (20) is filled with a powder (26) in the absence of oxygen. Then the tubular segment is reduced in cross-section to compact the powder within it. Next the tubular segment is heated to anneal it and effect a partial sinter (32) of the powder. Another reduction in cross section breaks the partial sinter into particles and further compacts them, whereas a further heating anneals the tubular segment and resinters the particles. Repetitions of the cycle produce the wire-like product.

IPC 8 full level

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CPC (source: EP US)

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C-Set (source: EP US)

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Citation (search report)

See references of WO 2008079974A2

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