

Title (en)
Plasma spray gun

Title (de)
Plasmaspritzgerät

Title (fr)
Appareil de pulvérisation par plasma

Publication
EP 0596830 B1 19960508 (DE)

Application
EP 93810729 A 19931018

Priority
DE 9215133 U 19921106

Abstract (en)
[origin: US5406046A] The plasma spray apparatus for spraying powdery material, particularly for the coating of the surface of a work piece, comprises an indirect plasmatron adapted to create an elongated plasma torch, having a central longitudinal axis and structure for feeding the powdery material into the plasma torch. The plasmatron comprises a cathode assembly having at least three cathode members evenly distributed along a circle around the central longitudinal axis of the plasmatron, an annular anode member located distantly from the cathode member and a plasma channel extending from the cathode assembly to the anode member. The plasma channel is delimited by the annular anode member as well as by a plurality of annular neutrode members which are electrically insulated from each other, and the structure for feeding the powdery material into the plasma torch are located close to the anode member.

IPC 1-7
H05H 1/34; H05H 1/42

IPC 8 full level
C23C 4/134 (2016.01); **H05H 1/34** (2006.01); **H05H 1/42** (2006.01)

CPC (source: EP US)
C23C 4/134 (2016.01 - EP US); **H05H 1/34** (2013.01 - EP US); **H05H 1/3484** (2021.05 - EP); **H05H 1/3484** (2021.05 - US)

Cited by
DE19610015C2; DE102011114406A1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
US 5406046 A 19950411; AT E137905 T1 19960515; CA 2102284 A1 19940507; CA 2102284 C 19990330; DE 59302504 D1 19960613; DE 9215133 U1 19930128; EP 0596830 A1 19940511; EP 0596830 B1 19960508; JP 3287373 B2 20020604; JP H06228730 A 19940816

DOCDB simple family (application)
US 14468593 A 19931028; AT 93810729 T 19931018; CA 2102284 A 19931102; DE 59302504 T 19931018; DE 9215133 U 19921106; EP 93810729 A 19931018; JP 27714093 A 19931105