

Title (en)

Apparatus for recharging machine parts by the plasma process.

Title (de)

Zuführvorrichtung für Plasmaspritzvorrichtung.

Title (fr)

Machine pour le rechargement de pièces mécaniques par procédé "plasma".

Publication

EP 0035459 A1 19810909 (FR)

Application

EP 81420026 A 19810302

Priority

FR 8004858 A 19800228

Abstract (en)

1. A machine for the recharging of mechanical components using the "plasma" method, of the type comprising a torch (4) and a powder distributor (2), with a rotary disc (22) having a vertical axis (23) and a scraper (27) for the supply of the torch (4), the powder being removed towards the periphery of the disc (22) and flowing from there via a conduit (5, 6) to the torch (4), characterised in that the powder distributor comprises at least one gas injector (31) comprising a receiver in the form of a funnel (33) disposed below the periphery of the rotary disc (22) and rising above a diffuser (32) with a lateral gas inlet (37) and gas intake apertures (38), the shape of the diffuser (32) and the arrangement of the intake apertures (38) being such that a gas eddy is created, into which the powder is sprayed, an outlet (40) disposed at the base of the injector (31) under the diffuser (32) being connected, via the conduit (5, 6), to the torch (4).

Abstract (fr)

Cette machine comprend une torche (4) alimentée par des conduits (5, 6) depuis un distributeur de poudre (2) à disque rotatif et racleurs. Ce distributeur comporte deux injecteurs de poudre (31), à gaz, disposés au-dessous du disque rotatif et ayant leur sortie reliée à un des conduits (5, 6). L'approvisionnement en poudre est assuré au moyen de deux bouches (12), mis en service alternativement au moyen d'un tiroir (10). La torche (4) est supportée par un ensemble mobile (3) comprenant une commande de translation horizontale (43) et une commande de translation verticale (44). Cette machine permet le rechargement par projection, ainsi que le rechargement soudé.

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- FR 1271615 A 19610915
- CH 518215 A 19720131 - HARTE AUGUST [CH]
- DE 507035 C 19300912 - HERMANN HARTMANN
- GB 943803 A 19631204 - DEGUSSA
- DE 2748490 A1 19780503 - EUTECTIC CORP
- DE 2743833 A1 19780406 - EUTECTIC CORP
- FR 2106780 A5 19720505 - SAVIEM
- DE 1805145 A1 19700903 - GEMA AG APPBAU
- [A] DE 2807866 B1 19790125 - PLASMAINVENT AG
- [A] GB 1378748 A 19741227 - ATOMIC ENERGY AUTHORITY UK
- [A] FR 2234045 A1 19750117 - ARCOS SOUDURE ELECT AUTOGENE [BE]

Cited by

FR2715172A1

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