

Title (en)

Apparatus for cutting or welding a workpiece with a metal jet

Title (de)

Vorrichtung zum Schneiden oder Schweißen eines Werkstückes mit einem metallischen Strahl

Title (fr)

Appareil pour couper ou souder une pièce à usiner avec un jet métallique

Publication

EP 1439041 A3 20040728 (EN)

Application

EP 04007551 A 20000920

Priority

- EP 00963648 A 20000920
- US 15507899 P 19990921

Abstract (en)

[origin: EP1439041A2] A metal jet cutting system, which includes a jetting head (9), a heater (30) and a power source (54), is used for modifying a workpiece. The jetting head (9) includes a crucible (11) and an inlet (17c) for receiving a feed stock (87) of a conductive material. The heater (30) melts the conductive material in the crucible (11) to provide a conductive fluid (80), which exits the jetting head (9) via an outlet. The power source (54), which is in electrical communication (50,52) with the conductive fluid (80), increases the temperature of the conductive fluid (80). The conductive fluid (80) is applied to the workpiece (70) to modify the workpiece. <IMAGE>

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CPC (source: EP)

B26F 3/004 (2013.01); **B26F 3/06** (2013.01)

Citation (search report)

- [X] EP 0919317 A1 19990602 - APUNEVICH ALEKSANDR I [RU], et al
- [A] US 5288960 A 19940222 - ROTHE RUEDIGER [DE], et al

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