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(54) Title: ARC SOURCE

(57) Abstract: An ARC evaporator comprising: - a cathode assembly, - an electrode arranged for enabling that an arc between an electrode and a front surface of the target can be established, and - a magnetic guidance system placed in front of a back surface of the target characterized in that: the magnetic guidance system comprises means placed in a central region for generating at least one magnetic field and means in a peripheral region for generating at least one further magnetic field, wherein the magnetic fields generated in this manner result in a total magnetic field for guiding the arc and controlling the cathode spot path at the front surface of the target, wherein the means placed in the central region comprises one electromagnetic coil for generating a magnetic field and the means placed in the peripheral region comprises two electromagnetic coils for generating two further magnetic fields.



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