

ABSTRACT OF THE DISCLOSURE

In a vacuum arc evaporation apparatus 10c, a magnetic member 46, cylindrical or annular in shape, is disposed on or near the outer peripheral part of an anode 36, cylindrical or annular in shape. The anode 36 is located in front of a cathode 30 in a vacuum arc evaporation source 20, while surrounding the front part of the same. The anode 36 and the magnetic member 46 are at an equal potential. The magnetic member 46 is made of a ferromagnetic material. With such an arrangement, of the magnetic lines 58 of force generated by a magnetic filter 50, the number of those magnetic lines passing through the anode 36 or its vicinity is increased. As a result, electrons emitted from the cathode 30 by the arc discharge are easy to reach the anode 36, and the arc discharge can be maintained even in a strong magnetic field.

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