



A B S T R A C T

An electrode supporting arm (24, 25, 26) for an arc furnace (10) is described. The arm (24, 25, 26) is a hollow profile (30) and has walls (35) formed at least partially of current-conducting material of high conductivity. The walls (35) of the hollow profile (30) have a coolant guidance system (40), comprising channels (36) arranged parallel to one another and concentrically to the centre line of the supporting arm in the wall (35) in such a number and with such dimensions that sufficient cooling is permitted without a reduction in the strength of the supporting arm (24, 25, 26).

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