

Title (en)
INDUCTION PLASMA FURNACE.

Title (de)
PLASMA-INDUKTIONSOFEN.

Title (fr)
FOUR A INDUCTION DE PLASMA.

Publication
EP 0273975 A1 19880713 (DE)

Application
EP 86906036 A 19860704

Priority
SU 8600070 W 19860704

Abstract (en)
An induction plasma furnace comprises an inductor (1) housing a melting pot (2) the side wall of which consists of two vertically oriented sections (3) made of an electrically conductive material and electrically insulated from each other. At least one of the sections (3) of the pot (2) is connected in series with the electrical circuit of an electric arc plasmatron (7), said circuit being closed through the melt (4), so that the current direction of the arc (10) of the plasmatron (7) is the same or opposite to the current direction in the section (3) of the pot (2).

Abstract (fr)
Un four à induction de plasma comporte un inducteur (1) abritant un creuset de fusion (2), dont les parois sont composées de sections (3) à orientation verticale, réalisées en un matériau électriquement conducteur et électriquement isolées l'une de l'autre. Au moins une des sections (3) du creuset (2) est reliée en série au circuit d'un plasmatron à arc électrique (7), ledit circuit étant fermé par le bain de fusion (4), de sorte que la direction du courant de l'arc (10) du plasmatron (7) est la même ou l'opposée de celle de la section (3) du creuset (2).

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