

Title (en)
INDUCTION OVEN FOR MELTING METALS

Title (de)
INDUKTIONSOFFEN ZUM SCHMELZEN VON METALLEN

Title (fr)
FOUR A INDUCTION POUR LA FUSION DE METAUX

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Application
EP 98925719 A 19980515

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Abstract (en)
[origin: WO9853642A1] The invention concerns an induction heating device to raise the temperature of metals for melting or hot machining while considerably saving energy, increasing yield and observing current safety standards. Said device (10) comprises at least a cavity (11) arranged to receive the metals and at least two magnetic yokes (13) arranged around said cavity (11), each bearing an independent induction coil (14). Said induction coils are mounted in the same direction such that their north pole is located one side of the cavity and their south pole on the opposite side. They are arranged so as to generate zones of null magnetic fields alternatively arranged between individual field zones distributed at the periphery of the cavity and forming individual active heating zones wherein the induced current is self-enclosed thereby producing high heating power. The invention is applicable to melting, forging, re-heating, transforming, working metals by induction.

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