

Title (en)
INDUCTION HEATING METHOD

Title (de)
INDUKTIONSGEIZVERFAHREN

Title (fr)
PROCÉDÉ DE CHAUFFAGE PAR INDUCTION

Publication
EP 2181563 B1 20100825 (DE)

Application
EP 08784690 A 20080710

Priority
• EP 2008005647 W 20080710
• DE 102007034970 A 20070726

Abstract (en)
[origin: WO2009012896A1] When a billet of an electrically conductive material is inductively heated by rotation of the billet (10) relative to a magnetic field, which is produced by means of at least one superconducting winding (60), through which direct-current flows, on an iron core (55.2, 55.3, 55.4), the back-induction voltage can be reduced by producing and maintaining a direct current in the winding (60), with a direct-current value which produces a magnetic flux density in the iron core, at least in the area of the winding, for which flux density the relative permeability of the material of the iron core is less than when no current is flowing through the winding.

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H05B 6/02 (2006.01); **H05B 6/14** (2006.01)

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