

Title (en)

Induction heating apparatus and installation for continuous thermal treatment using such apparatus

Title (de)

Vorrichtung zum induktiven Erwärmen und kontinuierliche Wärmebehandlungsanlage die eine solche Vorrichtung verwendet

Title (fr)

Dispositif de chauffage par induction et installation de traitement thermique en continu comportant un tel dispositif

Publication

EP 0822733 B1 20031029 (FR)

Application

EP 97401866 A 19970801

Priority

FR 9609823 A 19960802

Abstract (en)

[origin: EP0822733A1] A device is claimed for the induction heating of a metal product (1) defiling continuously in a protective atmosphere, comprising an induction system (4) and a sealed enclosure (3) that is thermally and electrically insulated and gas-tight, arranged around the defiling product (1) between the defiling product and the induction system (4). The induction system (4) incorporates at least one induction winding of a conducting material connected to a high frequency current generator (45) and extending around the defiling product (1) in a plane perpendicular to the direction of defilement (F) of the product (1). The sealed enclosure (7) is arranged inside the winding(s) of the induction system (4) and extends in the direction of defilement (F) upstream and downstream of the induction system (4) over a distance sufficient to create a zone traversed by the return induction flux. A thermal treatment installation incorporating this device is also claimed

IPC 1-7

H05B 6/02; **C21D 9/56**

IPC 8 full level

H05B 6/10 (2006.01); **C21D 9/56** (2006.01); **H05B 6/02** (2006.01)

CPC (source: EP US)

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Cited by

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