

Title (en)

ELECTROMAGNETIC INDUCTION DEVICE FOR THE HEATING OF METALLIC ELEMENTS

Publication

EP 0170556 B1 19890510 (FR)

Application

EP 85401260 A 19850624

Priority

FR 8410225 A 19840628

Abstract (en)

[origin: US4673781A] An electromagnetic induction apparatus for heating metal elements has at least one flat loop magnetic circuit open at its two facing ends, with an inductor wound onto the magnetic circuit. The inductor has two windings wound onto the magnetic circuit, respectively in the vicinity of the two ends of the loop, which windings are supplied by in-phase alternating currents. Each end of the flat loop is chamfered, the ends forming an air gap therebetween, in which the element to be heated is placed.

IPC 1-7

H05B 6/02; **H05B 6/42**

IPC 8 full level

H05B 6/02 (2006.01); **H05B 6/10** (2006.01); **H05B 6/42** (2006.01)

CPC (source: EP US)

H05B 6/104 (2013.01 - EP US); **H05B 6/42** (2013.01 - EP US)

Cited by

EP0459837A3; US4828227A; FR2640844A1; EP0438366A1; FR2657216A1; FR2661849A1; US5412183A; EP0340057A1; FR2630612A1; DE3717742A1; EP0624999A1; EP2276885A4; WO9117644A1; WO9525417A1; WO2009012895A3

Designated contracting state (EPC)

DE FR GB SE

DOCDB simple family (publication)

EP 0170556 A1 19860205; **EP 0170556 B1 19890510**; AU 4397985 A 19860102; AU 580073 B2 19881222; CA 1249037 A 19890117; DE 3570169 D1 19890615; FR 2566986 A1 19860103; FR 2566986 B1 19860919; JP H0586637 B2 19931213; JP S6119095 A 19860127; US 4673781 A 19870616

DOCDB simple family (application)

EP 85401260 A 19850624; AU 4397985 A 19850624; CA 485528 A 19850627; DE 3570169 T 19850624; FR 8410225 A 19840628; JP 14064285 A 19850628; US 74930385 A 19850627