

Title (en)
INDUCTION HEATING APPARATUS AND METHODS

Title (de)
INDUKTIONSGEIZVORRICHTUNG UND -VERFAHREN

Title (fr)
APPAREIL ET PROCÉDÉS DE CHAUFFAGE PAR INDUCTION

Publication
EP 3534674 A1 20190904 (EN)

Application
EP 19159990 A 20190228

Priority
US 201815907698 A 20180228

Abstract (en)
An assembly for use in treating gaseous exhaust emissions has an inductive heater mounted next to a gaseous emissions treatment unit. The upstream unit or section has linear passages extending the length of the first substrate body for the passage of emissions gas but with some of the passages blocked by metal inserts for use in inductive heating of the upstream unit. The concentration of metal inserts is high and the metal inserts are distributed to enable rapid intense inductive heating of the slice to achieve "light off" temperature rapidly in order to pass heat-supplemented gaseous emissions at light-off temperature to the downstream substrate or section as quickly as possible.

IPC 8 full level
H05B 6/10 (2006.01)

CPC (source: CN EP)
F01N 3/027 (2013.01 - CN); **F01N 3/2013** (2013.01 - CN); **H05B 6/108** (2013.01 - EP)

Citation (applicant)
• US 1452800 A 19230424 - HENRY GINGER
• US 9488085 B2 20161108 - CRAWFORD ROBIN [CA], et al

Citation (search report)
• [I] US 2017014764 A1 20170119 - CRAWFORD ROBIN [CA], et al
• [A] EP 3174369 A1 20170531 - ADVANCED TECH EMISSION SOLUTIONS INC [CA]
• [A] WO 9401202 A1 19940120 - GOSSLER KG OSCAR [DE], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3534674 A1 20190904; **EP 3534674 B1 20201216**; CN 110206619 A 20190906; CN 110206619 B 20220201; CN 114320542 A 20220412

DOCDB simple family (application)
EP 19159990 A 20190228; CN 201910152243 A 20190228; CN 202210029667 A 20190228