

Title (en)
ELECTROMAGNETIC INDUCTION ELECTRIC HEATER FOR FLUIDS

Title (de)
ERHITZER MIT ELEKTROMAGNETISCHER INDUKTION FÜR FLUIDE

Title (fr)
APPAREIL DE CHAUFFAGE ÉLECTRIQUE PAR INDUCTION ÉLECTROMAGNÉTIQUE POUR FLUIDES

Publication
EP 3528594 A1 20190821 (EN)

Application
EP 19156774 A 20190212

Priority
IT 201800002736 A 20180216

Abstract (en)
Heater for electromagnetic induction fluids (100), comprising:- a coil (1) crossed by an alternating electric current for the generation of an electromagnetic field,- a container (2), arranged inside the electromagnetic induction coil, consisting of a hollow cylindrical element made of non-magnetic electrically non-conductive material, containing inside it a heating element (3), in the area in which the coil induces the electromagnetic field,- two perforated flanges (5) for closing the container (2) provided with connections for the passage of the fluid,- a thermal insulation (6) between the coil (1) and the container (2) made of an electrically non-conductive and non-magnetic material,- in which the heating element (3) consists of a set of balls (4), having a core (4 ") of electrically conductive material and an outer coating (4 ') of electrically insulating material.

IPC 8 full level
H05B 6/10 (2006.01)

CPC (source: EP)
H05B 6/108 (2013.01)

Citation (search report)

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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

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