

Title (en)
CELL HEATING DEVICE

Title (de)
ZELLENERWÄRMUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE CHAUFFAGE DE CELLULE

Publication
EP 3333500 B1 20200311 (EN)

Application
EP 17204985 A 20171201

Priority
IT 201600124035 A 20161206

Abstract (en)
[origin: EP3333500A1] A cell heating device comprises a ring circuit (3) for a liquid, heating means and electric pump means (5) for the heating and circulation of a carrier liquid (L) assigned to transfer heat, by means of an exchanger means (7), to a fluid (A) to be heated. The heating means comprises cell means (9) electrically powered with at least single-phase alternating current and a possible neutral and/or ground, where each phase and each possible neutral or ground constitute a pole. Said cell means (9) comprises a container means (10) whose cavity is at least partially included in the circuit (3), and that is provided with an entrance (11) and an exit (12) for the liquid carrier (L) flow through the cavity, in which there is arranged, for each pole, at least an electrode means (15) made of an electrically conducting material, and electrically connected with the corresponding pole, lapped on by the carrier liquid (L) flow having a pH different from 7.

IPC 8 full level
F24H 3/04 (2006.01); **F24H 1/10** (2006.01); **F24H 1/20** (2006.01); **F24H 3/06** (2006.01)

CPC (source: EP)
F24H 1/106 (2013.01); **F24H 1/203** (2013.01); **F24H 3/0411** (2013.01); **F24H 3/062** (2013.01); **F24H 2250/10** (2013.01)

Cited by
EP3879186A1; FR3108165A1

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

DOCDB simple family (publication)
EP 3333500 A1 20180613; **EP 3333500 B1 20200311**; IT 201600124035 A1 20180606

DOCDB simple family (application)
EP 17204985 A 20171201; IT 201600124035 A 20161206