

Title (en)
METHOD FOR CONTROLLING AN EVAPORATOR BURNER

Title (de)
VERFAHREN ZUM STEUERN EINES VERDAMPFERBRENNERS

Title (fr)
PROCÉDÉ DE COMMANDE D'UN BRÛLEUR À VAPORISATION

Publication
EP 2092241 B1 20150729 (DE)

Application
EP 07816236 A 20071109

Priority
• CH 2007000553 W 20071109
• CH 18572006 A 20061117

Abstract (en)
[origin: WO2008058408A2] The invention relates to a method for controlling an evaporator burner, having an electrically heatable evaporator chamber, to which the heating oil to be burned is supplied, and having a fan for feeding the combustion air. According to the invention, an actual evaporator chamber temperature value T_{VDKist} is adjusted to a target evaporator chamber temperature value T_{VDKSoll} after the burner is started, namely by varying the amount of air supplied to the burner, which is carried out by means of controlling a rotational speed D of the fan according to a function $D = f(T_{\text{VDKist}})$. Ideal evaporation of the heating oil is achieved by the control according to the invention. This prevents carbon build-up residue of the heating oil in the evaporator chamber. Furthermore, trouble-free burner operation is achieved over a long period of use by means of the invention, according to which the imission threshold values are adhered to.

IPC 8 full level
F23D 11/44 (2006.01); **F23N 3/08** (2006.01); **F23N 5/02** (2006.01)

CPC (source: EP)
F23D 11/448 (2013.01); **F23N 3/00** (2013.01); **F23N 3/082** (2013.01); **F23N 5/02** (2013.01); **F23D 2900/31023** (2021.05); **F23N 2223/36** (2020.01); **F23N 2233/08** (2020.01); **F23N 2237/14** (2020.01)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2008058408 A2 20080522; WO 2008058408 A3 20080717; EP 2092241 A2 20090826; EP 2092241 B1 20150729

DOCDB simple family (application)
CH 2007000553 W 20071109; EP 07816236 A 20071109