

Title (en)  
SYSTEM FOR GENERATING STEAM WITH PREHEATING AREA, AND METHOD FOR GENERATING STEAM WITH PREHEATING AREA

Title (de)  
SYSTEM ZUR DAMPFERZEUGUNG MIT VORHEIZBEREICH UND VERFAHREN ZUR DAMPFERZEUGUNG MIT VORHEIZBEREICH

Title (fr)  
SYSTÈME DE PRODUCTION DE VAPEUR AVEC ZONE DE PRÉCHAUFFAGE, ET PROCÉDÉ DE PRODUCTION DE VAPEUR AVEC ZONE DE PRÉCHAUFFAGE

Publication  
**EP 3683506 A1 20200722 (EN)**

Application  
**EP 19382027 A 20190117**

Priority  
EP 19382027 A 20190117

Abstract (en)  
The system for generating steam in ovens comprises an injection tube (2) for injecting water into a cooking chamber (4) of the oven by means of a valve (1), generating steam in said cooking chamber (4), wherein said injection tube (2) comprises a preheating area (3) where water accumulates before being injected into the cooking chamber (4). The method comprises the steps of determining a water injection flow rate (C); determining a water injection regulation flow rate ( $C_{\text{REG}}$ ); determining the volume (V) of said preheating area (3); calculating the actuation time ( $W_{\text{H}}$ ) of said valve (1); and calculating the time (T) between the start of two consecutive water injections by means of the following formula: It makes it possible to generate more steam with the same volume of water and with a lower likelihood of deterioration of the turbine.

IPC 8 full level  
**F24C 15/32** (2006.01)

CPC (source: EP)  
**F24C 15/327** (2013.01)

Citation (search report)

- [X] EP 2387319 A2 20111123 - MAG AEROSPACE IND INC [US]
- [X] DE 3909283 A1 19901018 - ELOMA GMBH [DE]
- [X] EP 1616515 A1 20060118 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
- [X] FR 2849169 A1 20040625 - PREMARK FEG LLC [US]

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 3683506 A1 20200722**

DOCDB simple family (application)  
**EP 19382027 A 20190117**