

Title (en)  
METHOD AND DEVICE FOR MONITORING INDUCED PROPERTIES OF A MIXTURE OF COMPONENTS, IN PARTICULAR EMISSION PROPERTIES

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR ÜBERWACHUNG INDUZIERTER EIGENSCHAFTEN EINER MISCHUNG VON KOMPONENTEN, INSBESONDERE EMISSIONSEIGENSCHAFTEN

Title (fr)  
PROCEDE ET DISPOSITIF DE CONTRÔLE DE PROPRIETES INDUITES D'UN MELANGE DE CONSTITUANTS, NOTAMMENT DE PROPRIETES D'EMISSION

Publication  
**EP 3087506 A1 20161102 (FR)**

Application  
**EP 14827234 A 20141226**

Priority  

- FR 1363597 A 20131226
- EP 2014079349 W 20141226

Abstract (en)  
 [origin: WO2015097305A1] The invention relates to a method for monitoring properties of a mixture M of n components, said mixture having properties  $x(B, u)$ , wherein u is a recipe vector, B is a matrix of the properties of the n components, and  $x(u)$  is a vector of the k properties of the mixture M. The mixture also has at least one emission property  $R(u)=R(y(x(u)), z(x(u)))$  representative of a product emitted by said mixture during the use thereof, wherein  $z(x(u)) = y(x(u)) - x(u) y(x(u))$  is a vector of the properties of the mixture. The method monitors said recipe u such that said resulting mixture M complies with the specifications  $R_j < R_j(u)$  and / or  $R_j(u) \leq R_j$  for each emission property  $R_j$ ,  $j=1, \dots, q$ ,  $R_j$ ,  $R_j$  being acceptable minimum and maximum values, respectively, of said induced property  $R_j$ . Said monitoring includes estimating an emission property  $R(u)$  of a mixture M of properties  $x(u)$  determined beforehand,  $R(u)$  being a function: of predetermined properties  $x(u)$  of the mixture; of functions  $y(x(u))$  and  $z(x(u))$  associated with said predetermined properties, and subjected to disjunctive conditions which, for each property  $x_k$ , attribute to  $y_k$  at least one value selected among  $x_k$ ,  $m_k$ , and  $M_k$ , in accordance with one or more inequalities between said value  $x_k$  and  $m_k$  and  $M_k$ , wherein  $m_k$  and  $M_k$  are predefined constants and  $x_k$  is the value of the property k for a recipe u.

IPC 8 full level  
**G06F 17/10** (2006.01); **F02D 41/14** (2006.01); **F02D 41/26** (2006.01); **G05D 11/13** (2006.01)

CPC (source: EP KR US)  
**G05D 11/139** (2013.01 - EP KR US); **G06F 17/10** (2013.01 - EP KR US)

Citation (search report)  
See references of WO 2015097305A1

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)  
**WO 2015097305 A1 20150702**; CA 2933619 A1 20150702; CN 105849716 A 20160810; EP 3087506 A1 20161102; FR 3016061 A1 20150703; FR 3016061 B1 20170428; KR 20160102169 A 20160829; US 2016320780 A1 20161103

DOCDB simple family (application)  
**EP 2014079349 W 20141226**; CA 2933619 A 20141226; CN 201480069703 A 20141226; EP 14827234 A 20141226; FR 1363597 A 20131226; KR 20167014942 A 20141226; US 201415108451 A 20141226