

(19)



(11)

EP 2 447 310 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
23.04.2014 Bulletin 2014/17

(51) Int Cl.:
C08J 9/14^(2006.01)

(43) Date of publication A2:
02.05.2012 Bulletin 2012/18

(21) Application number: **11186523.4**

(22) Date of filing: **25.10.2011**

(84) Designated Contracting States:
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 States:
BA ME

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(30) Priority: **28.10.2010 US 407708 P**
19.10.2011 US 201113276369

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(54) **MIXTURES CONTAINING 1,1,1,3,3,3-HEXAFLUOROBUTENE AND 1-CHLORO-3,3,3-TRIFLUOROPROPENE**

(57) The present invention relates to mixtures of 1,1,1,3,3,3-hexafluorobutene (1336mzzm) and 1-chloro-3,3,3-trifluoropropene (1233zd). The blends are useful

as blowing agents for polymer foam, solvents, aerosol propellants and heat transfer media.

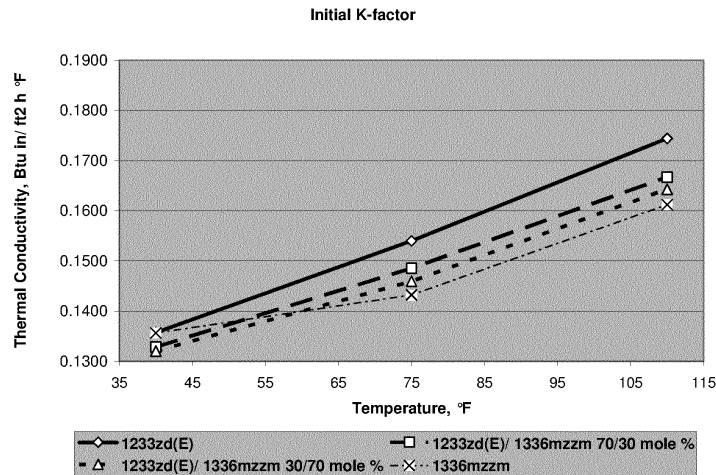


FIG. 1

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PARTIAL EUROPEAN SEARCH REPORT

Application Number

under Rule 62a and/or 63 of the European Patent Convention.
This report shall be considered, for the purposes of subsequent proceedings, as the European search report

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| DOCUMENTS CONSIDERED TO BE RELEVANT | | | |
|---|---|---|---|
| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | CLASSIFICATION OF THE APPLICATION (IPC) |
| X A | US 2010/163776 A1 (ROBIN MARK L [US]) 1 July 2010 (2010-07-01) * example 1 * * claims 1,6,7 * | 1-6,10, 11 7-9 | INV. C08J9/14 |
| A | ----- WO 2008/121783 A1 (ARKEMA INC [US]; CHEN BENJAMIN B [US]; ELSHEIKH MAHER Y [US]; BONNET P) 9 October 2008 (2008-10-09) * tables 7,11 * * claim 19 * ----- | 1,7-9 | |
| | | | TECHNICAL FIELDS SEARCHED (IPC) |
| | | | C08J |
| INCOMPLETE SEARCH | | | |
| <p>The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC so that only a partial search (R.62a, 63) has been carried out.</p> <p>Claims searched completely :</p> <p>Claims searched incompletely :</p> <p>Claims not searched :</p> <p>Reason for the limitation of the search: see sheet C</p> | | | |
| Place of search The Hague | | Date of completion of the search 17 March 2014 | Examiner Oudot, René |
| CATEGORY OF CITED DOCUMENTS | | T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document | |
| X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document | | | |

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EPO FORM 1503 03.02 (POAE07)

**INCOMPLETE SEARCH
SHEET C**

Application Number
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Claim(s) completely searchable:

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Claim(s) searched incompletely:

1-11

Reason for the limitation of the search:

The formula 1,1,1,3,3,3-hexafluorobutene used in independent claim 1 is chemically impossible.

The term "1336mzzm" means 1,1,1,4,4,4-hexafluorobutene.

Following a clarification request concerning the use of the term 1,1,1,3,3,3-hexafluorobutene in the description and claims, the applicant provided amended claims 1 - 11 wherein 1,1,1,4,4,4-hexafluorobutene was used instead.

This modification appears to fulfill the requirements of Rule 139 EPC. The present search and search opinion are based on this amended set of claims.

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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17-03-2014

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