

Title (en)

METHOD FOR CHEMICAL FOAMING IN THE PRESENCE OF REINFORCING FILLERS

Title (de)

VERFAHREN ZUR CHEMISCHEN SCHÄUMUNG IN GEGENWART VON VERSTÄRKENDEN FÜLLSTOFFEN

Title (fr)

PROCEDE DE MOUSSAGE CHIMIQUE EN PRESENCE DE CHARGES DE RENFORT

Publication

**EP 2877524 A2 20150603 (FR)**

Application

**EP 13739186 A 20130712**

Priority

- FR 1256698 A 20120712
- EP 2013064815 W 20130712

Abstract (en)

[origin: WO2014009540A2] The present invention relates to a method for preparing a foamed item, including the following steps: a) heating a composition including, or consisting of, at least one polyamide PA, at least one compound U including at least one urethane function, particularly a polyurethane PU, at least one reinforcing filler, the content of which is no lower than 10 wt% of the total weight of the composition, and a temperature T such that: the compound U directly or indirectly generates CO<sub>2</sub>, the polyamide is melted, and in particular, such that the composition is injectable; b) injecting or extruding said composition, the injection particularly being injection molding; and c) recovering the foamed item and an expandable granule including, or consisting of, at least one polyamide, at least one compound U, particularly a polyurethane PU, and at least one reinforcing filler, the content of reinforcing filler being no lower than 10 wt% of the total weight of the composition. The invention also relates to the use of such a composition of such a granule, or a foam or foamed item.

IPC 8 full level

**C08J 9/00** (2006.01); **C08J 9/02** (2006.01)

CPC (source: EP KR US)

**C08J 9/0004** (2013.01 - KR US); **C08J 9/0061** (2013.01 - EP KR US); **C08J 9/0085** (2013.01 - EP KR US); **C08J 9/02** (2013.01 - EP KR US); **C08J 9/228** (2013.01 - KR US); **C08J 2203/02** (2013.01 - KR US); **C08J 2375/04** (2013.01 - US); **C08J 2377/00** (2013.01 - EP KR US); **C08J 2377/06** (2013.01 - KR US); **C08J 2475/04** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2014009540A2

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 2014009540 A2 20140116**; **WO 2014009540 A3 20150108**; CN 104884513 A 20150902; EP 2877524 A2 20150603; FR 2993270 A1 20140117; FR 2993270 B1 20150807; IN 11149DEN2014 A 20150925; JP 2015522098 A 20150803; JP 2017039935 A 20170223; KR 20150036483 A 20150407; US 2015158989 A1 20150611

DOCDB simple family (application)

**EP 2013064815 W 20130712**; CN 201380037101 A 20130712; EP 13739186 A 20130712; FR 1256698 A 20120712; IN 11149DEN2014 A 20141226; JP 2015521018 A 20130712; JP 2016181528 A 20160916; KR 20157003427 A 20130712; US 201314413919 A 20130712