

Title (en)

DEVICE FOR SYNTHESISING AND STUDYING COMPOUNDS UNDER CONTROLLED TEMPERATURES AND PRESSURES

Title (de)

VORRICHTUNG ZUR SYNTHESE UND UNTERSUCHUNG VON VERBINDUNGEN UNTER KONTROLLIERTEN TEMPERATUREN UND DRÜCKEN

Title (fr)

DISPOSITIF POUR LA SYNTHÈSE ET L'ÉTUDE DE COMPOSÉS SOUS TEMPÉRATURES ET PRESSIONS CONTRÔLÉES

Publication

EP 3227015 A1 20171011 (FR)

Application

EP 15801843 A 20151130

Priority

- FR 1461933 A 20141204
- EP 2015078031 W 20151130

Abstract (en)

[origin: WO2016087355A1] The present invention relates to a device for synthesising and studying compounds under controlled temperatures and pressures. A device according to the invention (200, 300) for synthesising and studying compounds under controlled temperatures and pressures includes: a body (201, 301) that defines a vacuum chamber (202, 302) including means for adjusting the temperature (206, 306, 208, 308) and for applying a vacuum (210, 310), and having one or more viewing windows (205, 305, 216) allowing the inside of the chamber to be observed from the outside, means for adjusting the temperature (206, 306, 208, 308) that are intended for adjusting the temperature inside the vacuum chamber (202, 302), and means for applying a vacuum (210, 310) that are intended for adjusting the pressure in the vacuum chamber (202, 302), and characterised in that said device comprises, inside the vacuum chamber (202, 302), a sealed structure (10, 10') that defines a sealed chamber (13, 13') having at least one viewing window (16, 16', 19) facing said at least one window (205, 305, 216) of said body, and at least one pipe (213, 213') that is in fluid communication at one end with the inside of said sealed chamber (13, 13') and at the other end with an outlet (212, 312) that is made in the body (201, 301) and is provided in order to be connected to one or more sources of gas for synthesising said compound or sample.

IPC 8 full level

B01J 3/00 (2006.01); **B01J 3/02** (2006.01); **B01J 3/03** (2006.01)

CPC (source: EP US)

B01J 3/004 (2013.01 - EP US); **B01J 3/006** (2013.01 - EP US); **B01J 3/02** (2013.01 - EP US); **B01J 3/03** (2013.01 - EP US); **G01N 37/00** (2013.01 - US)

Citation (search report)

See references of WO 2016087355A1

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 2016087355 A1 20160609; EP 3227015 A1 20171011; FR 3029428 A1 20160610; FR 3029428 B1 20161230; US 2017304792 A1 20171026

DOCDB simple family (application)

EP 2015078031 W 20151130; EP 15801843 A 20151130; FR 1461933 A 20141204; US 201515528587 A 20151130