

Title (en)

OXYGEN-CONTAINING NOXIOUS GASES TRAP

Title (de)

FALLE FÜR SAUERSTOFFHALTIGE SCHÄDLICHE GASE

Title (fr)

PIÈGE À GAZ NOCIFS CONTENANT DE L OXYGÈNE

Publication

**EP 2321032 A1 20110518 (EN)**

Application

**EP 09780329 A 20090708**

Priority

- EP 2009058684 W 20090708
- EP 08160029 A 20080709
- EP 09780329 A 20090708

Abstract (en)

[origin: EP2143477A1] Process and device for trapping oxygen-containing noxious gases from combustion gases. The process comprises a feeding of phosphorus into an heat exchange chamber, the reaction of said phosphorus with said oxygen of said oxygen-containing noxious gases and generating a second thermal energy, and a partial transformation of the second thermal energy into mechanical work and/or electrical energy into the heat exchange chamber.

IPC 8 full level

**B01D 53/50** (2006.01); **B01D 53/60** (2006.01); **B01D 53/62** (2006.01); **C05B 13/00** (2006.01); **F23J 15/00** (2006.01)

CPC (source: EP)

**B01D 53/50** (2013.01); **B01D 53/502** (2013.01); **B01D 53/507** (2013.01); **B01D 53/60** (2013.01); **B01D 53/62** (2013.01); **C01B 13/0281** (2013.01); **C05B 17/00** (2013.01); **F23G 7/065** (2013.01); **F23J 15/003** (2013.01); **B01D 2257/502** (2013.01); **B01D 2257/504** (2013.01); **F23J 2219/80** (2013.01); **Y02C 20/40** (2020.08); **Y02E 20/32** (2013.01); **Y02P 20/151** (2015.11)

Citation (search report)

See references of WO 2010003984A1

Designated contracting state (EPC)

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 SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**EP 2143477 A1 20100113**; EP 2321032 A1 20110518; WO 2010003984 A1 20100114

DOCDB simple family (application)

**EP 08160029 A 20080709**; EP 09780329 A 20090708; EP 2009058684 W 20090708