

Title (en)  
DEVICE FOR ENERGY RECOVERY

Title (de)  
VORRICHTUNG ZUR ENERGIERÜCKGEWINNUNG

Title (fr)  
DISPOSITIF POUR LA RÉCUPÉRATION D'ÉNERGIE

Publication  
**EP 2880364 A2 20150610 (EN)**

Application  
**EP 13735447 A 20130524**

Priority

- IT TV20120153 A 20120802
- IB 2013054320 W 20130524

Abstract (en)  
[origin: WO2014020456A2] To improve the energy recovery of a device (1, 50, 100) for energy recovery from fumes or gases (F, F3, F4, FF), it comprises at least two stages (A, B, 3, 15, 20, 52, 76, 110, 150) in tandem arrangement wherein the downstream stage receives the fumes or gases output from the upstream stage, each stage comprising an inlet (A1, B1) and an outlet (U1, U2) for a liquid (H2O) adapted to meet the fumes or gas traveling inside the stage in order to subtract from them heat and / or impurities.

IPC 8 full level  
**F23J 15/06** (2006.01); **F23J 15/04** (2006.01)

CPC (source: EP)  
**B01D 47/022** (2013.01); **B01D 47/06** (2013.01); **F23J 15/04** (2013.01); **F23J 15/06** (2013.01); **B01D 2247/04** (2013.01); **F23J 2217/50** (2013.01); **F23J 2219/80** (2013.01); **F23J 2900/13004** (2013.01); **Y02E 20/30** (2013.01); **Y02P 70/10** (2015.11)

Citation (search report)  
See references of WO 2014020456A2

Citation (examination)

- US 4369167 A 19830118 - WEIR JR ALEXANDER [US]
- DE 2341025 A1 19750227 - LAATSCH FRITZ [DE]

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 2014020456 A2 20140206**; **WO 2014020456 A3 20140327**; EP 2880364 A2 20150610; EP 2880365 A2 20150610; EP 2880365 B1 20181121; IT TV20120153 A1 20140203; RS 58474 B1 20190430; RU 2015106995 A 20160920; RU 2015107010 A 20160920; RU 2640859 C2 20180112; WO 2014020466 A2 20140206; WO 2014020466 A3 20140327

DOCDB simple family (application)  
**IB 2013054320 W 20130524**; EP 13735447 A 20130524; EP 13765482 A 20130711; IB 2013055696 W 20130711; IT TV20120153 A 20120802; RS P20190240 A 20130711; RU 2015106995 A 20130524; RU 2015107010 A 20130711