

Title (en)  
Cascaded Organic Rankine Cycle System

Title (de)  
Kaskadiertes organisches Rankine-Kreislaufsystem

Title (fr)  
Système à cycle de rankine organique en cascade

Publication  
**EP 2607635 A2 20130626 (EN)**

Application  
**EP 12195287 A 20121203**

Priority  
US 201113334994 A 20111222

Abstract (en)  
A cascaded Organic Rankine Cycle (ORC) system (20) includes a topping cycle (22) and a bottoming cycle (24) in thermal communication with said topping cycle (22) through a condenser/evaporator (32) in which a bottoming cycle working fluid is first evaporated and then superheated and a topping cycle working fluid is first desuperheated and then condensed such that a percentage of total heat transfer from the topping cycle fluid that occurs during a saturated condensation is equal to or less than a percentage of total heat transfer to the bottoming cycle fluid that occurs during a saturated evaporation.

IPC 8 full level  
**F01K 23/04** (2006.01); **F01K 25/10** (2006.01)

CPC (source: EP US)  
**F01K 23/04** (2013.01 - EP US); **F01K 25/10** (2013.01 - EP US)

Cited by  
US11248500B2; EP3626937A4; WO2018020428A2

Designated contracting state (EPC)  
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Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2607635 A2 20130626**; **EP 2607635 A3 20170329**; **EP 2607635 B1 20210120**; **EP 2607635 B8 20210324**; CA 2798770 A1 20130622; CA 2798770 C 20151117; CN 103174475 A 20130626; CN 103174475 B 20160803; SG 191468 A1 20130731; US 2013160449 A1 20130627

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**EP 12195287 A 20121203**; CA 2798770 A 20121213; CN 201210561391 A 20121221; SG 2012075271 A 20121009; US 201113334994 A 20111222