

Title (en)  
SYSTEM AND METHOD FOR COOLING AND EXTRACTION OF HEAVY ASHES WITH INCREASE IN TOTAL BOILER EFFICIENCY

Title (de)  
SYSTEM UND VERFAHREN ZUR KÜHLUNG UND EXTRAKTION VON SCHWERER ASCHE MIT ERHÖHUNG DES GESAMTKESSELWIRKUNGSRADES

Title (fr)  
SYSTÈME ET PROCÉDÉ POUR REFROIDISSEMENT ET EXTRACTION DE CENDRES LOURDES À AUGMENTATION D'UN RENDEMENT TOTAL DE CHAUDIÈRE

Publication  
**EP 2665971 A2 20131127 (EN)**

Application  
**EP 12703161 A 20120118**

Priority

- IT RM20110023 A 20110121
- IB 2012050238 W 20120118

Abstract (en)  
[origin: WO2012098504A2] A cooling system (1 ) for heavy ashes of the type apt to be used in association with a combustion chamber (2), in particular for large flows rates of ashes deriving for example from solid fossil fuel in an energy-production unit, which system (1 ) comprises: - a transport belt (31 ) for transporting the heavy ashes, apt to be arranged below the combustion chamber (2) and having a containment casing (3) and a transport surface (311) equipped with openings (9) for the transit of cooling air, which transport surface (311) is apt to receive the ashes produced in the combustion chamber (2) substantially in the form of continuous bed; and - cooling means for cooling the heavy ashes received on said transport surface (311), which cooling means comprises at least one partitioned region (4) arranged below said transport surface (311) and forced feeding means (11) for a forced feeding of cooling air at said partitioned region (4), wherein said partitioned region (4) is configured so as to limit outflows of air fed therein, and wherein the overall arrangement is such that, in use, the cooling air fed into said partitioned region (4) crosses said openings (9) in said transport surface (311) and the bed of ashes received on the latter (Fig.1).

IPC 8 full level  
**F23J 1/02** (2006.01)

CPC (source: EP KR US)  
**F23H 15/00** (2013.01 - KR); **F23J 1/02** (2013.01 - EP KR US); **F24B 13/02** (2013.01 - KR); **F23J 2900/01002** (2013.01 - EP US); **F23J 2900/01003** (2013.01 - EP US); **F23J 2900/01007** (2013.01 - EP US); **F23J 2900/01009** (2013.01 - EP US)

Citation (search report)  
See references of WO 2012098504A2

Cited by  
EP3056811A1

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

DOCDB simple family (publication)  
**WO 2012098504 A2 20120726; WO 2012098504 A3 20130103**; AR 085084 A1 20130911; BR 112013018427 A2 20161011; CN 103477152 A 20131225; EA 201300851 A1 20131230; EP 2665971 A2 20131127; IT 1405071 B1 20131216; IT RM20110023 A1 20120722; JP 2014509378 A 20140417; JP 5539598 B2 20140702; KR 20140008347 A 20140121; MX 2013008443 A 20131017; TW 201237332 A 20120916; US 2013284079 A1 20131031

DOCDB simple family (application)  
**IB 2012050238 W 20120118**; AR P120100190 A 20120120; BR 112013018427 A 20120118; CN 201280005945 A 20120118; EA 201300851 A 20120118; EP 12703161 A 20120118; IT RM20110023 A 20110121; JP 2013549916 A 20120118; KR 20137021950 A 20120118; MX 2013008443 A 20120118; TW 101102367 A 20120120; US 201213980035 A 20120118