

Title (en)

METHOD OF HEAT RECOVERY AND HEAT RECOVERY APPARATUS

Title (de)

VERFAHREN ZUR WÄRMERÜCKGEWINNUNG UND WÄRMERÜCKGEWINNUNGSVORRICHTUNG

Title (fr)

PROCÉDÉ DE RÉCUPÉRATION DE LA CHALEUR ET APPAREIL DE RÉCUPÉRATION DE LA CHALEUR

Publication

EP 1712839 A1 20061018 (EN)

Application

EP 04770831 A 20040720

Priority

- JP 2004010320 W 20040720
- JP 2004012419 A 20040120

Abstract (en)

The object is to provide a heat recovery method, a method for processing a combustible material, a heat recovery apparatus and an apparatus for processing a combustible material in which ash content can be melted with a combustible material with a low calorific value without using auxiliary fuel, in which adhesion of ash to the heat transfer surfaces of a heat recovery apparatus can be prevented when heat is recovered from combustion product gas after the melting of the ash content, and which can minimize the allowance of the heat transfer surfaces and eliminate the necessity of equipment such as a water spray type gas cooling system. A heat recovery method comprising the steps of: recovering heat from first gas G2 entraining particles mostly with large particle sizes; and mixing second gas G1 entraining particles mostly with small particle sizes with the first gas G1 from which heat has been recovered and recovering heat from the mixture, and a method for processing a combustible material including the heat recovery method, and a heat recovery apparatus and an apparatus for processing a combustible material using the heat recovery method are provided.

IPC 8 full level

F23G 5/46 (2006.01); **F23G 5/00** (2006.01); **F23G 5/027** (2006.01); **F23G 5/30** (2006.01); **F23J 15/00** (2006.01)

CPC (source: EP)

F23G 5/006 (2013.01); **F23G 5/0276** (2013.01); **F23G 5/30** (2013.01); **F23G 5/46** (2013.01); **F23J 15/006** (2013.01); **F23G 2201/303** (2013.01); **F23G 2201/40** (2013.01); **F23G 2202/20** (2013.01)

Cited by

CN102671410A; NL2001501C2; WO2008122875A3

Designated contracting state (EPC)

CH DE ES FR GB LI

DOCDB simple family (publication)

EP 1712839 A1 20061018; **EP 1712839 A4 20121219**; **EP 1712839 B1 20181121**; WO 2005068909 A1 20050728

DOCDB simple family (application)

EP 04770831 A 20040720; JP 2004010320 W 20040720