Title (en)
COMBUSTION CONTROL SYSTEM, COMBUSTION CONTROL METHOD, COMBUSTION CONTROL PROGRAM, AND COMPUTER-READABLE RECORDING MEDIUM

Title (de)
VERBRENNUNGSSTEUERUNGSSYSTEM, VERBRENNUNGSSTEUERUNGSVERFAHREN, VERBRENNUNGSSTEUERUNGSPROGRAMM UND COMPUTERLESBARES AUFZEICHNUNGSMEDIUM

Title (fr)
DISPOSITIF, PROCÉDÉ ET PROGRAMME DE COMMANDE DE COMBUSTION ET SUPPORT D'ENREGISTREMENT LISIBLE PAR ORDINATEUR

Publication
EP 3239611 A1 20171101 (EN)

Application
EP 15872951 A 20151218

Priority
• JP 2014262911 A 20141225
• JP 2015065745 W 20150601
• JP 2015085575 W 20151218

Abstract (en)
To simply suppress a heat loss of an exhaust gas regardless of a type and a load of a boiler. In order for the object, the combustion control system includes: an excess air ratio setting unit that sets an excess air ratio which is a ratio of an amount of air to be input to a boiler relative to an amount of theoretical combustion air, based on a main steam flow rate from the boiler; an excess air ratio correction amount calculation unit that calculates a correction amount of the excess air ratio to make a heat loss caused by excess air and a heat loss caused by incomplete combustion be substantially equal to each other, based on oxygen concentration and carbon monoxide concentration in an exhaust gas from the boiler; and an oxygen control unit that generates an air setting correction signal for correcting a setting value of the air amount based on an excess air ratio corrected using the correction amount and the oxygen concentration in the exhaust gas.

IPC 8 full level
F23N 1/02 (2006.01); F23N 5/00 (2006.01)

CPC (source: EP)
F23N 1/02 (2013.01); F23N 5/00 (2013.01); F23N 5/006 (2013.01); F23N 2225/22 (2020.01); F23N 2900/05001 (2013.01)

Cited by
CN108763651A

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)
EP 3239611 A1 20171101; EP 3239611 A4 20180815; EP 3239611 B1 20210324; CN 106796029 A 20170531; JP 6135831 B2 20170531; JP WO2016104383 A1 20170427; TW 201638528 A 20161101; TW I677649 B 20191121; WO 2016104383 A1 20160630

DOCDB simple family (application)
EP 15872951 A 20151218; CN 201580053061 A 20151218; JP 2015085575 W 20151218; JP 2016561033 A 20151218; TW 104143379 A 20151223