

Title (en)

Method and apparatus for running a process in an open anode firing furnace

Title (de)

Verfahren zur Prozessführung eines offenen Anodenbrennofens

Title (fr)

Méthode et dispositif pour exécuter un procédé dans un four ouvert pour la cuisson d'anodes

Publication

**EP 1742004 A1 20070110 (DE)**

Application

**EP 06013072 A 20060624**

Priority

EP 05014427 A 20050704

Abstract (en)

In a process to fire ceramic tiles in an anode furnace the current operating condition is monitored by an assembly (1) with a sensor (16). The sensor measures the temperature and/or to determine the quantity of fuel or the heat emitted by burners (10), or the opacity of air. The furnace has an air passage (9) with a sensor (17) measuring the air flow rate through the furnace and feeding the results to an electronic control unit (12) determining a heat passage index for each burner zone. The control unit modifies the process accordingly.

IPC 8 full level

**C04B 35/532** (2006.01); **F27B 13/14** (2006.01); **F27D 21/00** (2006.01)

CPC (source: EP US)

**F27B 13/14** (2013.01 - EP US); **F27D 21/0021** (2013.01 - EP US)

Citation (search report)

- [X] US 4859175 A 19890822 - DREYER CHRISTIAN [FR], et al
- [X] MANNWEILER ULRICH ET AL: "Process control in an anode bake furnace fired with heavy oil", PROC 120 TMS ANNU MEET; LIGHT METALS 1991 1990 PUBL BY MINERALS, METALS & MATERIALS SOC (TMS), WARRENDALE, PA, USA, 1990, pages 667 - 671, XP002356253

Cited by

WO2021037622A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**EP 1742003 A1 20070110**; CA 2550880 A1 20070104; EP 1742004 A1 20070110; RU 2006123419 A 20080110; US 2007065766 A1 20070322

DOCDB simple family (application)

**EP 05014427 A 20050704**; CA 2550880 A 20060623; EP 06013072 A 20060624; RU 2006123419 A 20060703; US 47946106 A 20060630