

Title (en)

METHOD OF CONTINUOUS FIRE REFINING OF COPPER

Title (de)

VERFAHREN ZUR KONTINUIERLICHEN FEUERRAFFINATION VON ZINK

Title (fr)

PROCEDE DE RAFFINAGE AU FEU EN CONTINU DU CUIVRE

Publication

EP 2111472 A1 20091028 (EN)

Application

EP 05796063 A 20050906

Priority

- US 2005031731 W 20050906
- CL 2004002269 A 20040907

Abstract (en)

[origin: WO2006029162A1] A method of intensive, continuous copper fire refining, said method comprising the stages of: continuous tapping in a liquid copper (4) into a first oxidation reactor; liquid copper oxidation with combustion gases containing oxygen or with air; simultaneous formation of slag collecting impurities; continuous tapping out of oxidized copper and refining slag from the first reactor (8); continuous tapping in of oxidized copper into a second reduction reactor; reduction of copper with carbon and reducing gases formed by partial combustion of fuel and carbon; and continuous tapping out of reduced copper (14).

IPC 8 full level

C22B 15/14 (2006.01)

CPC (source: EP KR)

C22B 15/00 (2013.01 - KR); **C22B 15/005** (2013.01 - EP); **C22B 15/0052** (2013.01 - EP); **C22B 15/006** (2013.01 - EP); **Y02P 10/20** (2015.11 - EP)

Cited by

CN102146521A

Designated contracting state (EPC)

DE ES SE

DOCDB simple family (publication)

WO 2006029162 A1 20060316; AU 2005282475 A1 20060316; AU 2005282475 B2 20110331; CA 2579579 A1 20060316; CA 2579579 C 20170613; EP 2111472 A1 20091028; EP 2111472 A4 20091028; KR 20080100402 A 20081118; MX 2007002764 A 20081218

DOCDB simple family (application)

US 2005031731 W 20050906; AU 2005282475 A 20050906; CA 2579579 A 20050906; EP 05796063 A 20050906; KR 20077007827 A 20070405; MX 2007002764 A 20050906