

Title (en)

METHODS AND SYSTEMS FOR IMPROVED COKE QUENCHING

Title (de)

VERFAHREN UND SYSTEME FÜR VERBESSERTES LÖSCHEN VON KOKS

Title (fr)

PROCÉDÉS ET SYSTÈMES D'AMÉLIORATION DE L'EXTINCTION DU COKE

Publication

**EP 2938703 A4 20160727 (EN)**

Application

**EP 12890800 A 20121228**

Priority

US 2012072187 W 20121228

Abstract (en)

[origin: WO2014105068A1] The present technology describes various embodiments of methods and systems for improved coke quenching. More specifically, some embodiments are directed to methods and systems for improving the coke quenching process by partially cracking coke before it is quenched. In one embodiment, coke is partially cracked when placed in horizontal communication with one or more uneven surfaces. In another embodiment, a coke loaf is partially broken when dropped a vertical distance that is less than the height of the coke loaf. In another embodiment, a mass of coke is partially broken when first placed in vertical communication with one or more uneven surfaces and then placed in horizontal communication with the same or different one or more uneven surfaces. In some embodiments, the one or more uneven surfaces may be mounted to a coke oven, train car, hot car, quench car, or combined hot car/quench car.

IPC 8 full level

**C10B 39/14** (2006.01); **C10B 39/04** (2006.01); **C10B 39/12** (2006.01)

CPC (source: EP)

**C10B 39/04** (2013.01); **C10B 39/12** (2013.01); **C10B 39/14** (2013.01)

Citation (search report)

- [XI] WO 2012097845 A1 20120726 - THYSSENKRUPP UHDE GMBH [DE], et al
- [X] DE 480865 C 19290814 - KARL SASSENHOFF
- [X] DE 483081 C 19290925 - KARL SASSENHOFF
- See references of WO 2014105068A1

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 2014105068 A1 20140703**; CA 2896479 A1 20140703; CA 2896479 C 20200324; CN 104884579 A 20150902; CN 111876168 A 20201103; EP 2938703 A1 20151104; EP 2938703 A4 20160727

DOCDB simple family (application)

**US 2012072187 W 20121228**; CA 2896479 A 20121228; CN 201280077986 A 20121228; CN 202010735351 A 20121228; EP 12890800 A 20121228