

Title (en)

Device and method for regulating and controlling individual gas pressure of a coke oven chamber

Title (de)

Vorrichtung und Verfahren zum Regeln und Steuern des individuellen Gasdrucks einzelner Koksofenkammern

Title (fr)

Dispositif et procédé de réglage et de commande de la pression individuelle d'un gaz dans une chambre d'un four à coke

Publication

EP 2743332 B1 20170412 (DE)

Application

EP 12008356 A 20121214

Priority

EP 12008356 A 20121214

Abstract (en)

[origin: EP2743332A1] Device for regulating or controlling the individual gas pressure of individual ovens in a coke oven battery, comprises a riser pipe (3) manifold which extends from above into a template, and is associated with a dip tube with its lower end on a water labyrinth seal via a gasket. The dip tube is vertically adjustable by an actuator and is immersed at different depths in a dip cup for pressure control. The dip cup is below the dip tube. A sleeve is arranged within the riser pipe manifold which serves for the positioning of the dip tube and is connected to the water labyrinth seal. Device for regulating or controlling the individual gas pressure of individual ovens in a coke oven battery, comprises a riser pipe (3) manifold which extends from above into a template, and is associated with a dip tube with its lower end on a water labyrinth seal via a gasket. The dip tube is vertically adjustable by an actuator and is immersed at different depths in a dip cup for pressure control. The dip cup is below the dip tube. A sleeve is arranged within the riser pipe manifold which serves for the positioning of the dip tube and is connected to the water labyrinth seal at the bottom by at least one line. A water supply is provided above and beyond the riser pipe elbow for powering the water labyrinth seal and the actuator. An independent claim is also included for regulating or controlling the individual gas pressure of individual ovens in a coke oven battery, comprising arranging a dip tube at the lower end of a riser pipe elbow, which is varied for regulating and controlling the gas pressure in its position such that the dip tube has its lower end submerged in water, and filling the dip cup located below the dip tube with water such that the water overflows through an overflow rim and makes constant water level.

IPC 8 full level

C10B 27/06 (2006.01)

CPC (source: EP RU US)

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Cited by

CN110218568A; US9856450B2; US10351813B2

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BA

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