

Title (en)
COKE DRY QUENCHING DEVICE

Title (de)
VORRICHTUNG ZUR KOKSTROCKENLÖSCHUNG

Title (fr)
DISPOSITIF D'EXTINCTION À SEC DU COKE

Publication
EP 3101092 A1 20161207 (EN)

Application
EP 15170151 A 20150601

Priority
EP 15170151 A 20150601

Abstract (en)
A coke dry quenching device (100) comprises a pre-chamber (112) having a cylindrical wall (116) extending along a vertical axis (A) and comprising a coke inlet aperture (120) through which hot, granular coke is fed into the pre-chamber (112); and a quenching chamber (114), below the pre-chamber (112). The quenching chamber (114) includes a cylindrical wall (122) in axial continuity of the pre-chamber to receive the descending coke; gas supply means (128, 129) for supplying cooling gas inside the quenching chamber; and a coke discharge aperture (124) at the bottom of the quenching chamber. A plurality of gas outlet apertures (130) circumferentially distributed in a transition region at the top of the quenching chamber (114), through which cooling gas is evacuated into gas flues (132) joining into an annular collection channel (134) surrounding the pre-chamber (112) above the gas outlet apertures (130). The cylindrical wall (116) of the pre-chamber (112) is supported at its bottom by a plurality of peripherally distributed, substantially vertical support columns (136) resting on the cylindrical wall (122) of the quenching chamber (114).

IPC 8 full level
C10B 39/02 (2006.01)

CPC (source: EP)
C10B 39/02 (2013.01)

Citation (applicant)
EP 2338954 A1 20110629 - NIPPON STEEL ENG CO LTD [JP]

Citation (search report)
• [X] CN 101705102 A 20100512 - ACRE COKING & REFRACTORY DALIA, et al
• [X] JP H0366795 A 19910322 - SHINAGAWA REFRACTORIES CO
• [A] JP S5639446 U 19810413

Cited by
CN109135775A; CN108587654A; CN113583689A

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

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