

Title (en)

A REFRACTORY BRICK, ITS COMPOSITION, AND PROCESS FOR MANUFACTURING THEREOF

Title (de)

FEUERFESTER STEIN, DESSEN ZUSAMMENSETZUNG UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

BRIQUE RÉFRACTAIRE, SA COMPOSITION ET SON PROCÉDÉ DE FABRICATION

Publication

EP 3224221 A4 20180606 (EN)

Application

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Priority

TH 2015000098 W 20151229

Abstract (en)

[origin: WO2017116313A1] The present disclosure relates generally to a composition for a refractory article such as a refractory brick, having enhanced chemical infiltration resistance, anti-hydration, and low heat conductivity properties. The refractory brick composition comprises olivine 40-90 %, elastifier 5-35 %, silicon carbide 1 - 15 %, and magnesia to make up to 100% by weight of dry admixture. Anti-hydration property of the refractory brick is drastically improved and can provide an advantage of enhanced product shelf life and simple, cost effective product transportation and storage logistics. Thermal conductivity property of the refractory brick is approximately below 2.20 W/mK at the temperature range of 450 - 1200 °C, and is insensitive with respect to the firing temperature. An average permeability of the refractory brick is significantly lower than that of conventional refractory brick by at least 73%. Additionally, the present disclosure relates to a method for producing a refractory brick according to the composition disclosed herein.

IPC 8 full level

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Citation (search report)

- [XY] DE 202013011886 U1 20140903 - REFRATECHNIK HOLDING GMBH [DE]
- [XY] DE 102013010854 A1 20141231 - REFRATECHNIK HOLDING GMBH [DE]
- [A] US 2014339456 A1 20141120 - MOODY KENNETH J [US], et al
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- See references of WO 2017116313A1

Designated contracting state (EPC)

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