

Title (en)
RED BRICK AND PROCESS FOR PREPARATION THEREOF

Title (de)
ROTER ZIEGELSTEIN UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)
BRIQUE ROUGE ET SON PROCÉDÉ DE PRÉPARATION

Publication
EP 4017838 A4 20231011 (EN)

Application
EP 19942372 A 20191120

Priority

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Abstract (en)
[origin: WO2021033193A1] The present disclosure relates to a red brick comprising: 20-50 wt% of red mud; 10-20 wt% of bottom ash; 10-30 wt% of natural sand; 15-30 wt% of fly ash; and 4-15 wt% of Portland cement. The present disclosure also relates to a process for preparing a red brick comprising: mixing 20-50 wt% of red mud, 10-20 wt% of bottom ash, 10-30 wt% of natural sand to form a first mixture, adding 15-30 wt% of fly ash and 4-15 wt% of Portland cement to the first mixture to form a second mixture, rolling the second mixture in a pan mixer having roller and scraper to produce a final mixture, molding the final mixture in a brick press to provide a pressed red brick, and stacking the pressed red brick in yards to form a red brick.

IPC 8 full level
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CPC (source: EP)
C04B 28/02 (2013.01); **C04B 28/04** (2013.01)

Citation (search report)

- [A] WO 2018037422 A1 20180301 - HINDALCO INDUSTRIES LTD [IN]
- [A] CN 101456703 A 20090617 - JIANSHU SUN [CN]
- [A] CN 101020603 A 20070822 - GUIYANG BAIYUN YAOZHU NEW TYPE [CN]
- [AD] CN 101468905 A 20090701 - GUITANG LIU [CN]
- [A] MANDAL A K ET AL: "Effect of bottom ash fineness on properties of red mud geopolymer", THE JOURNAL OF SOLID WASTE TECHNOLOGY AND MANAGEMENT, UNIVERSITY OF PENNSYLVANIA AND THE WIDENER UNIVERSITY SCHOOL OF ENGINEERING, US, vol. 43, no. 1, 1 May 2017 (2017-05-01), pages 26 - 35, XP009534829, ISSN: 1088-1697, DOI: 10.5276/JSWTM.2017.26
- See references of WO 2021033193A1

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