

Title (en)

METHOD AND APPARATUS FOR THERMAL CONDITIONING OF WET CERAMIC PRODUCTS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR WÄRMEKONDITIONIERUNG VON NASSEN KERAMIKPRODUKTEN

Title (fr)

PROCEDE ET APPAREIL DE CONDITIONNEMENT THERMIQUE DE PRODUITS CERAMIQUES HUMIDES

Publication

EP 1615758 A1 20060118 (EN)

Application

EP 03798970 A 20031001

Priority

- GR 0300042 W 20031001
- GR 2002100429 A 20021001

Abstract (en)

[origin: WO2004030882A1] The present method and apparatus for thermal conditioning of wet ceramic materials or articles before drying, enables the crack-free and rapid drying of ceramic materials or articles, improves quality and reduces overall production time and cost, even of clay products with a high concentration of high plasticity clay. The method offers a significant increase in productivity of a factory without major restructuring or changes to the factory or the production method. The method is characterised by multi-level irradiation of wet ceramic materials or articles using small, localised sources of electromagnetic radiation so that the temperature of the water inside the wet ceramic materials or articles is raised uniformly and quickly to near the boiling point before they enter the drier, keeping the surface temperature of the ceramic materials or articles lower than the centre without drying.

IPC 1-7

B28B 11/24; H05B 6/64; F26B 3/34

IPC 8 full level

B28B 11/24 (2006.01); **F26B 3/347** (2006.01); **H05B 6/78** (2006.01)

CPC (source: EP)

B28B 11/241 (2013.01); **B28B 11/243** (2013.01); **F26B 3/347** (2013.01); **H05B 6/78** (2013.01); **H05B 2206/046** (2013.01)

Citation (search report)

See references of WO 2004030882A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004030882 A1 20040415; AU 2003264909 A 20040423; EP 1615758 A1 20060118; GR 1004709 B 20041025; GR 20020100429 A 20040531

DOCDB simple family (application)

GR 0300042 W 20031001; AU 2003264909 A 20031001; EP 03798970 A 20031001; GR 2002100429 A 20021001