

Title (en)

A PROCESS AND AN APPARATUS FOR OPTIMISED MANAGEMENT OF A KILN FOR CERAMIC TILES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR OPTIMIERTEN VERWALTUNG EINES OFENS FÜR KERAMIKFLIESEN

Title (fr)

PROCESSUS ET APPAREIL POUR UNE GESTION OPTIMISÉE D'UN FOUR POUR CARREAUX EN CÉRAMIQUE

Publication

**EP 1974173 A1 20081001 (EN)**

Application

**EP 06830297 A 20061201**

Priority

- EP 2006069231 W 20061201
- IT RE20060007 A 20060126

Abstract (en)

[origin: WO2007085317A1] A process for management and retro-active regulation of a tunnel kiln for firing ceramic tiles, comprising burners located above the roller plane and below the roller plane, nozzles dispensing forced cold air in a terminal part of the kiln, and means for detecting a temperature internally of the kiln, controlled by a processor, comprises the following operations: setting the processor for a desired temperature curve; memorising in a first memory standard defects relating to shape and size of the tiles,- memorising in a second memory, for each of the standard defects, modifications for management of the kiln for in order to reduce the defects; performing at intervals on each tile of a same transversal alignment of tiles exiting from the kiln a control of a planarity and dimensions thereof in order to determine a type of defect detected by comparison with data contained in the first memory; and signalling the defect detected to the processor, which identifies the defect by comparison thereof with the data contained in the first memory and by modifying supply to the burners and to the cooling air nozzles on the basis indications of data contained in the second memory.

IPC 8 full level

**F27B 9/40** (2006.01); **C21D 11/00** (2006.01); **F27B 9/36** (2006.01); **F27D 19/00** (2006.01); **F27D 21/02** (2006.01)

CPC (source: EP)

**B28B 11/243** (2013.01); **B28B 17/0072** (2013.01); **F27B 9/36** (2013.01); **F27B 9/40** (2013.01); **F27D 19/00** (2013.01); **F27D 21/00** (2013.01); **C21D 11/00** (2013.01); **F27D 21/02** (2013.01); **F27D 2019/0056** (2013.01)

Citation (search report)

See references of WO 2007085317A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**WO 2007085317 A1 20070802**; BR PI0620969 A2 20120918; CN 101360966 A 20090204; CN 101360966 B 20100922; EP 1974173 A1 20081001; IT RE20060007 A1 20070727; RU 2008128554 A 20100310; RU 2406050 C2 20101210

DOCDB simple family (application)

**EP 2006069231 W 20061201**; BR PI0620969 A 20061201; CN 200680051422 A 20061201; EP 06830297 A 20061201; IT RE20060007 A 20060126; RU 2008128554 A 20061201