

Title (en)  
A tunnel kiln for ceramic products

Title (de)  
Tunnelofen für Keramikprodukte

Title (fr)  
Four tunnel pour produits en céramique

Publication  
**EP 1884730 A3 20100317 (EN)**

Application  
**EP 07108445 A 20070518**

Priority  
IT RE20060094 A 20060728

Abstract (en)  
[origin: EP1884730A2] A tunnel kiln (1) for ceramic products comprising two opposite lateral walls (2), a horizontal roller conveyor (5) destined to support and advance a layer of tiles (100) internally of the kiln (1), a first series of burners (51) and a second series of burners (52) arranged aligned along the two lateral walls and facing towards the opposite wall, each burner (51) of the first series (51) being provided exclusively with an axial flame such as to heat a central zone of the tunnel while each burner (52) of the second series is provided with at least a radial-flame nozzle such as to beat a zone which is proximal to the lateral wall of the tunnel, each burner (51, 52) of the first and the second series being connected to a common conduit (60) of combustible gas and respectively to a first (510) and a second (520) conduit of a comburent, comprising: means (523) for detecting a dimensional out-of-size with respect to a design project specification for the products exiting the kiln (1); a control unit (522) for receiving data coming from the means (523) for detecting; means for regulating (521) a flow rate of the comburent to the burners (52) of the second series on the second conduit (520) of the comburent, the means for regulating (521) of the comburent flow rate being controlled by the control unit (522) which is programmed to command the means for regulating (521) according to the data received from the means for detecting (523).

IPC 8 full level  
**F27B 9/36** (2006.01); **F27B 9/40** (2006.01); **F27D 19/00** (2006.01); **F27D 21/02** (2006.01)

CPC (source: EP)  
**F23N 1/002** (2013.01); **F23N 3/002** (2013.01); **F27B 9/36** (2013.01); **F27B 9/40** (2013.01); **F27D 19/00** (2013.01); **F27D 21/02** (2013.01); **F27M 2001/1517** (2013.01)

Citation (search report)  
• [Y] EP 1500889 A1 20050126 - TCK S R L [IT]  
• [YD] DE 19706351 A1 19970828 - SACMI FORNI SPA [IT]

Cited by  
CN102679726A; IT202100020177A1; EP4063776A1; IT202100006797A1; EP4241951A1; EP3767214A1; IT201900012288A1; WO2023170527A1

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**EP 1884730 A2 20080206; EP 1884730 A3 20100317; EP 1884730 B1 20111130**; AT E535768 T1 20111215; BR PI0703052 A 20080325; CN 101113873 A 20080130; CN 101113873 B 20110810; ES 2377240 T3 20120323; IT RE20060094 A1 20080129; MX 2007008526 A 20081029; PL 1884730 T3 20120531; PT 1884730 E 20120302; RU 2007125862 A 20090120; RU 2441187 C2 20120127

DOCDB simple family (application)  
**EP 07108445 A 20070518**; AT 07108445 T 20070518; BR PI0703052 A 20070626; CN 200710127084 A 20070628; ES 07108445 T 20070518; IT RE20060094 A 20060728; MX 2007008526 A 20070713; PL 07108445 T 20070518; PT 07108445 T 20070518; RU 2007125862 A 20070710