

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).

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

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

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