

Title (en)

Process for firing and cooling of ceramic products, particularly wall and floor tiles, in continuous kiln on a single layer car.

Title (de)

Verfahren zum Brennen und Kühlen keramischer Produkte in einlagig besetzten Durchlaufwagenöfen.

Title (fr)

Procédé pour la cuisson et le refroidissement de produits céramiques, comme les carreaux de sole et de paroi, dans un four continu parcouru par des chariots chargés d'une couche.

Publication

EP 0051042 A1 19820505 (EN)

Application

EP 81810356 A 19810831

Priority

CH 800480 A 19801028

Abstract (en)

The process provides that the material is introduced into a furnace with a first prefiring zone, a second firing zone and third cooling zone. Kiln cars move forward in the furnace on which refractory surfaces carrying the load (2) are realized in such a manner as to leave at least one longitudinal interspace (3). In the ceiling of the first zone and in correspondance with the said longitudinal interspace (3) is formed a niche (3 min) provided with burners (4), the gases coming from which are divided and deflected by means of deflectors (6) from a vertical passage into two horizontal passages in opposite directions. In the second zone, the firing is realized by combustion gases which are fed in horizontally and over the product to be fired, together with the heat supplied from the air originating from the cooling zone, and the distance between the ceiling and the car deck (5 min) of kiln cars is reduced to a very small amount. Therefore, this results in the greatest reduction possible of the external air volume injected into a tunnel furnace resulting in improvement of the efficiency.

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IPC 8 full level

C04B 33/32 (2006.01); **F27B 9/12** (2006.01); **F27B 9/20** (2006.01)

CPC (source: EP)

F27B 9/20 (2013.01)

Citation (search report)

- FR 2208514 A5 19740621 - G I [SU]
- FR 1429299 A 19660225 - HOUILLERES BASSIN DU NORD, et al
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Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 0051042 A1 19820505; BR 8106580 A 19820629; DD 202068 A5 19830824; DK 472281 A 19820429; ES 505602 A0 19830101; ES 8302282 A1 19830101; JP S57106566 A 19820702; PT 73654 A 19811001; PT 73654 B 19831028

DOCDB simple family (application)

EP 81810356 A 19810831; BR 8106580 A 19811008; DD 23423181 A 19811020; DK 472281 A 19811027; ES 505602 A 19810918; JP 17197381 A 19811026; PT 7365481 A 19810910