

Title (en)
TUNNEL KILN FOR FIRING CERAMIC ITEMS

Title (de)
TUNNELOFEN ZUM BRENNEN VON KERAMISCHEN ARTIKELN

Title (fr)
FOUR TUNNEL DESTINÉ À LA CUISSON D'ARTICLES CÉRAMIQUES

Publication
EP 2017558 A4 20120418 (EN)

Application
EP 07747920 A 20070502

Priority
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• RU 2006114796 A 20060502

Abstract (en)
[origin: EP2017558A1] The invention relates to engineering for firing natural materials and items made thereof and can be used for producing building ceramic units, in particular bricks. The inventive tunnel kiln for firing ceramic items comprises a working channel provided with ceramic item pre-heating, firing and cooling areas. Said working channel is defined by sidewalls, a main arch roof and an additional arch roof. The gas-distributing (ventilation) system of the tunnel kiln comprises at least one intake pipeline, a ventilator and a feeding pipeline, wherein the intake pipeline connects the inter-arch space of the kiln to the ventilator and the feeding pipeline connects the ventilator to the working channel cooling area and/or to a space between the firing area and said working channel cooling area. Said invention makes it possible to stabilise the quality characteristics of final products, to ensure more rational temperature operating conditions and to reduce the fuel consumption by using the inter-arch space heat. In addition, the supply of hot gas from said inter-arch space to the working channel makes it possible to compensate losses of heat taking place when the doors of the kiln are open.

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F27B 9/02 (2013.01); **F27B 9/10** (2013.01); **F27B 9/3005** (2013.01); **F27D 17/008** (2013.01)

Citation (search report)
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• [A] US 5900202 A 19990504 - LINGART YOURI [CZ], et al
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• See references of WO 2007126340A1

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RU2495345C1

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EP 2017558 A1 20090121; EP 2017558 A4 20120418; EP 2017558 B1 20140122; CN 101479552 A 20090708; CN 101479552 B 20120704; ES 2458617 T3 20140506; RU 2313746 C1 20071227; WO 2007126340 A1 20071108

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