

Title (en)

COOLING TUNNEL AND METHOD FOR OPERATING THE SAME

Title (de)

KÜHLTUNNEL UND VERFAHREN ZUM BETRIEB EINES SOLCHEN

Title (fr)

TUNNEL DE REFROIDISSEMENT ET PROCÉDÉ D'UTILISATION DE CELUI-CI

Publication

EP 2283285 B1 20120926 (DE)

Application

EP 09734359 A 20090421

Priority

- EP 2009054722 W 20090421
- DE 102008019903 A 20080421

Abstract (en)

[origin: WO2009130206A2] A cooling tunnel comprises an insertion gate (23) for inserting articles to be cooled which are preferably stacked on pallets, an exit gate (24) for exiting articles, a plurality of subsequent treatment positions (21.1 to 21.x) for impinging the articles to be cooled with a cooling medium, especially cooling air, and a conveying device (30) for transporting the articles to be cooled from the insertion gate (23) to the exit gate (24), the conveying device (30) leading through the individual treatment positions (21.1 to 21.x). The conveying device (30) comprises a first section (31) which runs through a plurality of treatment positions and which extends from the insertion gate (23) to a position of return (33), a second section (32) which runs through a plurality of treatment positions and which extends from the point of return (33) to the exit gate (24), and a return section (34) which is arranged upstream of the exit gate (24) and which connects an exit-side region of the second section (32) to an insertion-side region of the first section (31) to optionally exit articles or continue cooling them. The cooling tunnel according to the invention allows a high throughput at variable set cooling times and while maintaining the same in a narrow tolerance range. The invention also relates to a method for operating a cooling tunnel or a pallet cooling system.

IPC 8 full level

F25D 13/06 (2006.01); **F25D 25/04** (2006.01)

CPC (source: EP US)

F25D 13/067 (2013.01 - EP US); **F25D 25/04** (2013.01 - EP US); **F25D 2317/0655** (2013.01 - EP US); **F25D 2317/0664** (2013.01 - EP US)

Cited by

ES2455790A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

DE 102008019903 A1 20091022; EP 2283285 A2 20110216; EP 2283285 B1 20120926; PL 2283285 T3 20130228;
US 2011030393 A1 20110210; US 8549866 B2 20131008; WO 2009130206 A2 20091029; WO 2009130206 A3 20100527

DOCDB simple family (application)

DE 102008019903 A 20080421; EP 09734359 A 20090421; EP 2009054722 W 20090421; PL 09734359 T 20090421; US 90888210 A 20101021