

Title (en)
DEVICE, SYSTEM, AND METHOD FOR CONTROLLING THE TEMPERATURE OF WORKPIECES

Title (de)
VORRICHTUNG, ANLAGE UND VERFAHREN ZUM TEMPERIEREN VON WERKSTÜCKEN

Title (fr)
DISPOSITIF, SYSTÈME ET PROCÉDÉ SERVANT À RÉGULER LA TEMPÉRATURE DE PIÈCES

Publication
EP 3485210 A1 20190522 (DE)

Application
EP 17739977 A 20170714

Priority
• DE 102016113062 A 20160715
• EP 2017067818 W 20170714

Abstract (en)
[origin: WO2018011389A1] The invention relates to a device for controlling the temperature of workpieces (16), in particular for drying vehicle bodies (18), comprising a housing (20), a temperature-controlling tunnel (22) which is accommodated in the housing (20), and a temperature-controlling system (86, 94) for controlling the temperature of workpieces (12). The temperature-controlling system (86, 94) comprises a full-space temperature-controlling device (86), by means of which the temperature of a workpiece as a whole can be controlled, and a local temperature-controlling device (94), by means of which the temperature of locally delimited regions (18a, 18b, 18c) of the workpiece (16) can be controlled and which comprises multiple temperature-controlling units (96) that can be activated and actuated independently of one another for this purpose. The full-space temperature-controlling device (86) and the local temperature-controlling device (94) are provided in the temperature-controlling tunnel (22) such that a workpiece (16) at least within an active section (98) in the temperature-controlling tunnel (22) can be under the influence of both the full-space temperature-controlling device (86) as well as the local temperature-controlling device (94). A system (14) and a method for controlling the temperature of workpieces (16) are additionally provided.

IPC 8 full level
F26B 3/28 (2006.01); **F26B 15/14** (2006.01); **F26B 15/16** (2006.01); **F26B 25/10** (2006.01); **F26B 25/12** (2006.01)

CPC (source: EP US)
F24H 9/0057 (2013.01 - EP US); **F26B 3/283** (2013.01 - EP US); **F26B 15/14** (2013.01 - EP US); **F26B 15/16** (2013.01 - EP US); **F26B 25/10** (2013.01 - EP US); **F26B 25/12** (2013.01 - EP US); **F26B 2210/12** (2013.01 - EP US)

Citation (examination)
• US 2007261264 A1 20071115 - ORTLIEB KONRAD [DE], et al
• US 2013199893 A1 20130808 - ROBBIN JOERG [DE]
• US 2011131828 A1 20110609 - SWOBODA WERNER [DE]
• See also references of WO 2018011389A1

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 102016113062 A1 20180118; CN 109477684 A 20190315; EP 3485210 A1 20190522; US 11543154 B2 20230103;
US 2019219304 A1 20190718; WO 2018011389 A1 20180118

DOCDB simple family (application)
DE 102016113062 A 20160715; CN 201780043720 A 20170714; EP 17739977 A 20170714; EP 2017067818 W 20170714;
US 201716317680 A 20170714