Title (en)
PROCESS FOR DRYING A SUBSTRATE, AIR DRYING MODULE AND DRYING SYSTEM

Title (de)
VERFAHREN ZUM TROCKNEN EINES SUBSTRATS SOWIE LUFTTROCKNERMODUL SOWIE TROCKNERSYSTEM

Title (fr)
PROCÉDÉ DE SÉCHAGE D'UN SUBSTRAT, MODULE DE SÉCHAGE À AIR ET SYSTÈME DE SÉCHAGE

Publication
EP 3788313 B1 20240124 (DE)

Application
EP 19720116 A 20190425

Priority
• DE 102018110824 A 20180504
• EP 2019060582 W 20190425

Abstract (en)
[origin: WO2019211155A1] A known method for at least partially drying a substrate comprises the following method steps: (a) generating a supply air flow directed onto the substrate, said supply air flow having a supply air flow direction with a direction component in the transport direction, or the direction opposite thereto and (b) generating an exhaust air flow leading away from the substrate. Proceeding from said known method, in order to specify a drying method that is reproducible and effective and that leads to an improved result in particular with respect to the homogeneity and speed of the drying of the substrate, it is proposed that the exhaust air flow is split into a plurality of sub-flows by supplying each of the sub-flows to an individual intake channel, and that, in the event of a supply air flow having a direction component in the direction of movement of the substrate, the supply air flow is arranged spatially upstream of the exhaust air flow, and, in the event of a supply air flow having a direction component in the opposite direction to the movement of the substrate, the supply air flow is arranged spatially downstream of the exhaust air flow.

IPC 8 full level
F26B 21/00 (2006.01); F26B 3/28 (2006.01); F26B 13/20 (2006.01)

CPC (source: EP US)
F26B 3/283 (2013.01 - EP US); F26B 13/104 (2013.01 - EP US); F26B 21/004 (2013.01 - EP US)

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

DOCDB simple family (publication)
WO 2019211155 A1 20191107; CN 112119276 A 20201222; CN 112119276 B 20230530; DE 102018110824 A1 20191107; DE 102018110824 B4 20220210; EP 3788313 A1 20210310; EP 3788313 B1 20240124; JP 2021522060 A 20210830; JP 7326335 B2 20230815; US 2021080177 A1 20210318

DOCDB simple family (application)
EP 2019060582 W 20190425; CN 201980029674 A 20190425; DE 102018110824 A 20180504; EP 19720116 A 20190425; JP 2020561699 A 20190425; US 201917050310 A 20190425