

Title (en)
DRYING OVEN AND DRYING METHOD

Title (de)
TROCKNUNGSOFEN UND TROCKNUNGSVERFAHREN

Title (fr)
FOUR DE SÉCHAGE ET PROCÉDÉ DE SÉCHAGE

Publication
EP 3742096 A1 20201125 (EN)

Application
EP 20175967 A 20200522

Priority
IT 201900007224 A 20190524

Abstract (en)
Described is an oven (1) for drying painted elements, comprising a plurality of cages (2) or mats containing the painted elements, an infeed station (3a) for the painted elements and an outfeed station (3b) for the painted elements. The oven (1) also comprises at least one column (5) of housings shaped in such a way as to house respective cages (2) or mats. The housings are associated with respective air outlets configured to define zones at a different speed, temperature and/or humidity inside the drying oven (1). The oven (1) comprises a movement system (6), operatively associated with the column (5) of housings, equipped with movement means configured to transport each cage (2) or mat along a drying path wherein at least one housing defines a drying station wherein a respective cage (2) or mat stops for a preset period of time in a zone at a specific air speed, temperature and/or humidity.

IPC 8 full level
F26B 11/18 (2006.01); **F26B 15/10** (2006.01); **F26B 25/06** (2006.01)

CPC (source: EP)
F26B 11/18 (2013.01); **F26B 15/10** (2013.01); **F26B 25/063** (2013.01)

Citation (search report)
• [X] US 2014173928 A1 20140626 - HAUSER WOLFGANG [DE]
• [X] US 5286007 A 19940215 - TAKAGI RYOJI [JP]
• [X] US 9200834 B1 20151201 - BALL JR TROY EUGENE [US], et al

Cited by
CN115638633A; US11434074B2; DE102021119246B3

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)
EP 3742096 A1 20201125; EP 3742096 B1 20230802; EP 3742096 C0 20230802; IT 201900007224 A1 20201124

DOCDB simple family (application)
EP 20175967 A 20200522; IT 201900007224 A 20190524