

Title (en)  
VERTICAL CONTINUOUS FURNACE

Title (de)  
VERTIKAL LAUFOFEN

Title (fr)  
FOUR CONTINU VERTICAL

Publication  
**EP 2995894 B1 20180718 (EN)**

Application  
**EP 15002295 A 20150801**

Priority  
IT BG20140034 A 20140807

Abstract (en)  
[origin: EP2995894A1] A vertical continuous compact furnace has been engineered and implemented for metallurgical heat treatments in a continuous cycle in a wide pressure range, from high vacuum to supra atmospheric pressure. The furnace provides for heat treatments with high energy efficiency and high productivity of treated workpieces per time unit in a compact vertical cylindrical bell. The furnace has cylindrical chambers with horizontal and vertical symmetry in sequence to minimize or maximize the dissipation according to the stages of the cycle and to shield thermally the separation gate valves and handling system. It also presents a compact thermal chamber with adjacent thermal zones differentiated and shielded from the workpieces according to an innovative scheme. It also presents a new pumping system for the creation of a differential pressure inside the furnace.

IPC 8 full level  
**F27B 5/02** (2006.01); **F27B 5/04** (2006.01); **F27B 5/12** (2006.01); **F27D 3/12** (2006.01); **F27D 5/00** (2006.01)

CPC (source: EP)  
**F27B 5/02** (2013.01); **F27B 5/04** (2013.01); **F27B 5/12** (2013.01); **F27D 3/12** (2013.01); **F27D 5/0068** (2013.01)

Cited by  
AT520466A2; AT520466B1; AT520466A3; US11971216B1; US11807913B2; EP4000782A1

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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)  
**EP 2995894 A1 20160316; EP 2995894 B1 20180718**

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