

Title (en)  
FIREPROOF WALL, IN PARTICULAR FOR A COMBUSTION FURNACE

Title (de)  
FEUERFESTE WAND, INSBESONDERE FÜR EINEN VERBRENNUNGSOFEN

Title (fr)  
PAROI RÉFRACTAIRE, EN PARTICULIER POUR UN FOUR À COMBUSTION

Publication  
**EP 2315975 A1 20110504 (DE)**

Application  
**EP 09809162 A 20090821**

Priority  
• CH 2009000276 W 20090821  
• CH 13612008 A 20080826

Abstract (en)  
[origin: WO2010022522A1] A fireproof wall intended, in particular, for use in a combustion furnace comprises a tube wall (1) of tubes (11) connected by webs (12) and a fireproof and fire-tight protective lining (2) which is arranged upstream of the tube wall at a distance therefrom and comprises a plurality of fireproof plates (21) which are arranged alongside and above each other and are fastened to the webs (12) of the tube wall via in each case at least one plate mounting (22). An intermediate space (3) is present between the tube wall (1) and the protective lining (2) and, at least in certain zones, contains a particulate filler material (P) which increases the transfer of heat between the protective lining and the tube wall. Material selection and the zonal local distribution of the particulate filler material make it possible to deliberately influence the transfer of heat both quantitatively and locally and therefore to optimally adapt it to the respective operating requirements of the combustion furnace.

IPC 8 full level  
**F23M 5/08** (2006.01)

CPC (source: CH EP US)  
**F22B 37/108** (2013.01 - EP US); **F23M 5/08** (2013.01 - CH); **F23M 5/085** (2013.01 - EP US); **F27D 1/0003** (2013.01 - CH); **F27D 1/12** (2013.01 - EP US); **F23M 2900/05004** (2013.01 - EP US); **F23M 2900/05005** (2013.01 - EP US)

Citation (search report)  
See references of WO 2010022522A1

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 SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**CH 699405 A1 20100226**; **CH 699405 B1 20210615**; EP 2315975 A1 20110504; EP 2315975 B1 20190724; JP 2012500956 A 20120112; JP 5734851 B2 20150617; US 2011139049 A1 20110616; WO 2010022522 A1 20100304

DOCDB simple family (application)  
**CH 13612008 A 20080826**; CH 2009000276 W 20090821; EP 09809162 A 20090821; JP 2011524155 A 20090821; US 201113035722 A 20110225