

Title (en)

METHOD FOR TREATING FUMES GENERATED BY COMBUSTION OF WOOD AND DEVICE FOR IMPLEMENTING SAID METHOD

Title (de)

VERFAHREN ZUR BEHANDLUNG VON DURCH VERBRENNUNG VON HOLZ ERZEUGTEN RAUCHGASEN UND VORRICHTUNG ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)

PROCEDE DE TRAITEMENT DE FUMEEES GENEREES PAR UNE COMBUSTION DE BOIS ET DISPOSITIF POUR LA MISE EN OEUVRE DU PROCEDE

Publication

EP 3796990 A1 20210331 (FR)

Application

EP 19730260 A 20190520

Priority

- FR 1870579 A 20180519
- EP 2019062950 W 20190520

Abstract (en)

[origin: WO2019224145A1] The invention relates to a method for treating fumes generated by combustion of wood and to a device for implementing said treatment enabling an increase in thermal efficiency by condensation of said fumes as well as a joint decontamination of fumes and of excess water discharged from the wastewater. For this purpose, the fumes are condensed by a specific washing adapted to these highly charged fumes, which allows a transfer of pollutants from the fumes to the washing waters. The pollutants are then treated in an aqueous phase in the washing waters by means of a re-combustion separation of the volatile organic compounds, an oxidation by ozonation in the aqueous phase of the other pollutants and a continuous neutralization of all of the washing waters in combination with the ozonation.

IPC 8 full level

B01D 47/00 (2006.01); **B01D 53/14** (2006.01); **B01D 53/18** (2006.01); **B01D 53/77** (2006.01); **F23J 15/04** (2006.01)

CPC (source: EP)

B01D 47/00 (2013.01); **B01D 53/1412** (2013.01); **B01D 53/1425** (2013.01); **B01D 53/18** (2013.01); **B01D 53/77** (2013.01); **F23G 7/105** (2013.01); **F23J 15/04** (2013.01); **B01D 2251/104** (2013.01); **B01D 2252/103** (2013.01); **B01D 2257/302** (2013.01); **B01D 2257/404** (2013.01); **B01D 2257/708** (2013.01); **B01D 2258/0283** (2013.01); **F23J 2219/70** (2013.01); **F23J 2900/15003** (2013.01)

Citation (search report)

See references of WO 2019224145A1

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)

FR 3081108 A1 20191122; EP 3796990 A1 20210331; WO 2019224145 A1 20191128

DOCDB simple family (application)

FR 1870579 A 20180519; EP 19730260 A 20190520; EP 2019062950 W 20190520