

Title (en)  
WASTE OIL BURNING SYSTEM

Title (de)  
SYSTEM ZUR VERBRENNUNG VON ÖLABFÄLLEN

Title (fr)  
SYSTÈME DE COMBUSTION D'HUILE USAGÉE

Publication  
**EP 2109741 A1 20091021 (EN)**

Application  
**EP 08713308 A 20080128**

Priority  
• US 2008001065 W 20080128  
• US 70029007 A 20070131

Abstract (en)  
[origin: US2008182213A1] A waste oil burning system having a burner and a heat exchanger for preheating atomizing air before the atomizing air is supplied to the nozzle. The burner includes a fuel conduit for supplying waste oil to the burner and an air supply line for supplying atomizing air to the burner. The burner has a nozzle which atomizes the waste oil by mixing the waste oil with the air from the air supply line. The nozzle sprays the atomized waste oil into a combustion zone where the atomized waste oil is combusted. The heat exchanger is positioned in the combustion zone, so that energy produced from the combustion of the waste oil preheats the air supplied through the air supply line before the air is mixed with the waste oil.

IPC 8 full level  
**F23D 11/38** (2006.01)

CPC (source: EP US)  
**F23D 11/106** (2013.01 - EP US); **F23G 5/12** (2013.01 - EP US); **F23G 7/05** (2013.01 - EP US); **F23L 15/04** (2013.01 - EP US);  
**Y02E 20/34** (2013.01 - EP US)

Citation (search report)  
See references of WO 2008094487A1

Cited by  
CN102901110A

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 MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**US 2008182213 A1 20080731**; AU 2008211270 A1 20080807; CA 2669134 A1 20080807; EP 2109741 A1 20091021;  
WO 2008094487 A1 20080807

DOCDB simple family (application)  
**US 70029007 A 20070131**; AU 2008211270 A 20080128; CA 2669134 A 20080128; EP 08713308 A 20080128; US 2008001065 W 20080128