

Title (en)  
Waste gas system for a construction machine

Title (de)  
Strassenfertiger oder Beschicker

Title (fr)  
Système de gaz d'échappement pour un engin

Publication  
**EP 2479398 B1 20170503 (DE)**

Application  
**EP 11000585 A 20110125**

Priority  
EP 11000585 A 20110125

Abstract (en)  
[origin: EP2479398A1] The machine (100) has an exhaust system (1) comprising an engine compartment (2) that is provided with an engine bonnet (3). An exhaust outlet (6) is provided in the engine bonnet and fluidically aligned with an exhaust pipe (4). The exhaust pipe is provided as an exhaust vent (7) in the engine bonnet for outlet of waste heat from an engine (101). The exhaust outlet and the exhaust vent are configured such that exhaust airstream emitted from the exhaust vent spreads effluent gases from the exhaust outlet to keep-out of the effluent gases from operators.

IPC 8 full level  
**F01N 13/00** (2010.01); **F01N 13/08** (2010.01)

CPC (source: EP US)  
**F01N 13/001** (2013.01 - EP US); **F01N 13/002** (2013.01 - EP US); **F01N 13/082** (2013.01 - EP US); **F01N 2260/20** (2013.01 - EP US); **F01N 2590/08** (2013.01 - EP US)

Citation (examination)  
US 2008115989 A1 20080522 - MATTE FRANCOIS [CA], et al

Citation (opposition)  
Opponent : Caterpillar Inc., U.S.A.  
• EP 1637710 A1 20060322 - CATERPILLAR MITSUBISHI LTD [JP]  
• DE 102009023207 A1 20101202 - DYNAPAC GMBH [DE]  
• US 5228530 A 19930720 - TSUCHIHASHI HIRONORI [JP]  
• FR 2170753 A5 19730914 - BAMFORD EXCAVATORS LTD JC [GB]

Cited by  
JP2017166198A

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

DOCDB simple family (publication)  
**EP 2479398 A1 20120725**; **EP 2479398 B1 20170503**; CN 102619605 A 20120801; CN 102619605 B 20150819; IN 129DE2012 A 20150522; JP 2012154166 A 20120816; JP 6108262 B2 20170405; PL 2479398 T3 20171031; US 2012186894 A1 20120726

DOCDB simple family (application)  
**EP 11000585 A 20110125**; CN 201210019567 A 20120120; IN 129DE2012 A 20120113; JP 2012007689 A 20120118; PL 11000585 T 20110125; US 201213350004 A 20120113