

Title (en)  
EXHAUST DEVICE FOR ENGINE

Title (de)  
ABSAUGVORRICHTUNG FÜR MOTOR

Title (fr)  
DISPOSITIF D'ÉCHAPPEMENT POUR MOTEUR

Publication  
**EP 3064722 A1 20160907 (EN)**

Application  
**EP 16150653 A 20160108**

Priority  
JP 2015043650 A 20150305

Abstract (en)  
An exhaust device 29 for an engine includes a silencer 32 connected to a downstream side of an exhaust pipe 31. The exhaust pipe 31 includes a catalyst 50 and the silencer 32 includes an expansion chamber 60. The expansion chamber 60 includes a first expansion chamber 61 and a second expansion chamber 62, which are connected to each other by a first fluid communication pipe 71. The exhaust device includes an oxygen sensor 54 for detecting an oxygen component in the exhaust gas, the oxygen sensor being disposed downstream of the catalyst 50 and facing an opening 71k of the first fluid communication pipe 71. The oxygen sensor 54 is disposed outwardly of a downstream edge 31 b of the exhaust pipe 31 when the exhaust pipe 31 is viewed along a longitudinal axis thereof.

IPC 8 full level  
**F01N 1/08** (2006.01)

CPC (source: EP)  
**F01N 1/089** (2013.01); **F01N 2490/04** (2013.01); **F01N 2560/025** (2013.01); **F01N 2590/04** (2013.01)

Citation (applicant)  
WO 2005075805 A1 20050818 - YAMAHA MOTOR CO LTD [JP], et al

Citation (search report)  
• [X] EP 1408209 A1 20040414 - TOYOTA MOTOR CO LTD [JP]  
• [I] US 2006201742 A1 20060914 - TERASHIMA YASUTO [JP], et al  
• [A] JP 2009127511 A 20090611 - MITSUBISHI MOTORS CORP, et al

Cited by  
EP3450710A1; CN109458247A; DE102017219721A1; EP3348806A4; CN111919017A; EP3779138A4; US10473019B2; US11753973B2; US11421576B2; US10619538B2; WO2019015845A1; WO2019138427A1

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)  
**EP 3064722 A1 20160907; EP 3064722 B1 20181024**; JP 2016160915 A 20160905; JP 6333199 B2 20180530

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**EP 16150653 A 20160108**; JP 2015043650 A 20150305