

Title (en)  
Muffler and saddle type vehicle

Title (de)  
Schalldämpfer und Sattelfahrzeug

Title (fr)  
Silencieux et véhicule à selle

Publication  
**EP 2735715 B1 20150812 (EN)**

Application  
**EP 13194540 A 20131127**

Priority  
JP 2012258672 A 20121127

Abstract (en)  
[origin: EP2735715A1] There is provided a muffler which is capable of sufficiently reducing influence from heat generated in a catalyst. There is also provided a saddle type vehicle including the muffler. A saddle type vehicle 10 includes an engine 14 and a muffler 44. The muffler 44 includes an exhaust pipe 46, a silencer 48 and a catalyst 52. The silencer 48 includes a main body portion 68, a first separator 70 and a second separator 72. Inside the main body portion 68, a first expansion chamber X1 is on a rearward side of the second separator 72, a second expansion chamber X2 is on a forward side of the first separator 70, and a third expansion chamber X3 is between the first separator 70 and the second separator 72. The catalyst 52 is held by the exhaust pipe 46 inside the second expansion chamber X2. The exhaust pipe 46 passes through the through-hole 70a without making contact with the first separator 70, and is supported by the second separator 72. Exhaust gas from the engine 14 flows through the exhaust pipe 46, the first expansion chamber X1, the second expansion chamber X2 and the third expansion chamber X3 in this order, and then is released from the main body portion 68.

IPC 8 full level  
**F01N 3/08** (2006.01); **F01N 1/02** (2006.01); **F01N 1/08** (2006.01)

CPC (source: EP)  
**F01N 1/02** (2013.01); **F01N 1/083** (2013.01); **F01N 1/084** (2013.01); **F01N 1/089** (2013.01); **F01N 3/08** (2013.01); **F01N 2230/04** (2013.01); **F01N 2260/10** (2013.01); **F01N 2590/04** (2013.01)

Cited by  
DE102016206555B4; EP3059407A1; US11421568B2

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 2735715 A1 20140528; EP 2735715 B1 20150812**; BR 102013030564 A2 20141014; BR 102013030564 B1 20210908; CN 103835786 A 20140604; CN 103835786 B 20160302; ES 2546634 T3 20150925; JP 2014105617 A 20140609; PH 12013000358 A1 20150601; PH 12013000358 B1 20150601

DOCDB simple family (application)  
**EP 13194540 A 20131127**; BR 102013030564 A 20131127; CN 201310613294 A 20131127; ES 13194540 T 20131127; JP 2012258672 A 20121127; PH 12013000358 A 20131127