

Title (en)  
REFLECTIVE MUFFLER, AIR-PROCESSING UNIT, PNEUMATIC SYSTEM, AND VEHICLE, IN PARTICULAR PASSENGER CAR

Title (de)  
REFLEKTIERENDER SCHALLDÄMPFER, LUFTAUFBEREITUNGSEINHEIT, PNEUMATISCHES SYSTEM UND FAHRZEUG, INSBESONDERE PERSONENKRAFTWAGEN

Title (fr)  
SILENCIEUX RÉFLÉCHISSANT, UNITÉ DE TRAITEMENT D'AIR, SYSTÈME PNEUMATIQUE ET VÉHICULE, EN PARTICULIER VOITURE DE TOURISME

Publication  
**EP 4339428 A1 20240320 (EN)**

Application  
**EP 22196259 A 20220919**

Priority  
EP 22196259 A 20220919

Abstract (en)  
The invention is directed to a reflective muffler (100) for reducing noise level in an exhaust line of an air-processing unit. The muffler comprises an input port (102) and an output port (104) for exhausting exhaust air (106b). A damping unit (107) is arranged between the input port (102) and the output port (104) and comprises a damping chamber (108) including at least one flow-deflection element (110) that is configured to block a direct flow path (112) between the input port and the output port, and an inlet chamber (114) arranged between the input port and the damping chamber. The inlet chamber is separated from the damping chamber by a first separation wall (122) having a pneumatic orifice (124). The inlet chamber has a cross sectional area value (CS1) perpendicular to a longitudinal direction (L) that increases in a flow direction (F) from the input port to the damping section.

IPC 8 full level  
**F01N 1/08** (2006.01); **G10K 11/16** (2006.01)

CPC (source: EP)  
**F01N 1/02** (2013.01); **F01N 1/08** (2013.01); **G10K 11/161** (2013.01)

Citation (applicant)  
WO 2018033300 A1 20180222 - CONTINENTAL TEVES AG & CO OHG [DE]

Citation (search report)

- [I] US 6089347 A 20000718 - FLUGGER RAY T [US]
- [I] CN 201714460 U 20110119 - NINGBO JIANGBEI BAOLONG EXHAUST SYSTEM CO LTD
- [A] US 9920670 B1 20180320 - WRIGHT BYRON [US]

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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

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