

Title (en)  
Silencer for internal-combustion engines.

Title (de)  
Schalldämpfer für Explosionsmotoren.

Title (fr)  
Silencieux pour moteur à explosion.

Publication  
**EP 0337877 A1 19891018 (FR)**

Application  
**EP 89400996 A 19890411**

Priority  
FR 8804810 A 19880412

Abstract (en)  
The present invention relates to a silencer for internal-combustion engines, consisting of an internal gas-conducting circuit (1) accommodated in an outer casing (4), characterised in that the gas circuit (1) comprises insulating collars (3) which are seated in the half-shells and partitions (2) which bear on the half-shells produced from composite material, with a refractory material (5) being interposed. <IMAGE>

IPC 1-7  
**F01N 7/16**; **F01N 7/18**

IPC 8 full level  
**F01N 13/16** (2010.01); **F01N 13/18** (2010.01); **F01N 13/02** (2010.01); **F01N 13/14** (2010.01)

CPC (source: EP)  
**F01N 13/0097** (2014.06); **F01N 13/16** (2013.01); **F01N 13/1861** (2013.01); **F01N 13/1877** (2013.01); **F01N 13/14** (2013.01); **F01N 2450/24** (2013.01); **F01N 2450/30** (2013.01); **F01N 2470/02** (2013.01); **F01N 2530/20** (2013.01); **F01N 2530/26** (2013.01)

Citation (search report)  
• [A] EP 0057142 A2 19820804 - INDUSTELER SA [FR]  
• [A] GB 2129490 A 19840516 - RICHARDS ALAN WILLIAM  
• [A] DE 2323264 A1 19741121 - VOLKSWAGENWERK AG  
• [A] US 4589516 A 19860520 - INOUE TAKESHI [JP], et al  
• [A] GB 2143275 A 19850206 - PRODUCTION ENG RES  
• [A] GB 1129287 A 19681002 - WALKER MFG CO

Cited by  
US5332873A; EP1253302A1; EP0884456A3; JP2009533601A; DE102010041666A1; EP0563843A1; EP2639423A1; DE102012204114A1; JP2013194736A; CN103410597A; DE102012204114B4; CN104963745A; US8939254B2; WO2007120680A1; WO9208881A1; US7730996B2; JP2010513772A; WO2022163274A1; EP2639423B1

Designated contracting state (EPC)  
DE ES GB IT

DOCDB simple family (publication)  
**EP 0337877 A1 19891018**; **EP 0337877 B1 19920513**; DE 68901487 D1 19920617; ES 2031374 T3 19921201; FR 2629864 A1 19891013; FR 2629864 B1 19910301

DOCDB simple family (application)  
**EP 89400996 A 19890411**; DE 68901487 T 19890411; ES 89400996 T 19890411; FR 8804810 A 19880412