

Title (en)

Method and apparatus for manufacturing a muffler for automotive exhaust systems

Title (de)

Verfahren und Vorrichtung zur Herstellung eines Dämpfers für ein Fahrzeugabgassystem

Title (fr)

Procédé et appareil pour fabriquer un silencieux pour systèmes d'échappement automobile

Publication

EP 1860296 A1 20071128 (EN)

Application

EP 07108491 A 20070518

Priority

US 44185306 A 20060526

Abstract (en)

A method of manufacturing a muffler for an automotive vehicle includes providing an interior subassembly including spaced apart end plates and flow tubes extending generally perpendicular to the end plates. A leading edge of a metal sheet is clamped against the interior subassembly and the sheet is welded proximal the leading edge, to the interior subassembly. The interior subassembly is rotated while maintaining tension on the sheet, thereby causing the sheet to wrap around the interior subassembly as the interior subassembly rotates and the sheet is welded at an intermediate location to the interior subassembly. The rotating of the interior subassembly is repeated and the sheet is welded proximal a trailing edge thereof to one of the interior subassembly and an underlayer of the sheet. The subassembly is then rotated and the sheet is continuous seem welded to the end plates.

IPC 8 full level

F01N 13/18 (2010.01)

CPC (source: EP US)

B21C 37/0803 (2013.01 - EP US); **B21C 37/0815** (2013.01 - EP US); **F01N 13/18** (2013.01 - EP US); **F01N 1/084** (2013.01 - EP US); **F01N 2450/22** (2013.01 - EP US); **Y10T 29/49398** (2015.01 - EP US)

Citation (search report)

- [X] JP 2003138935 A 20030514 - FUTABA IND CO LTD
- [A] JP H11207425 A 19990803 - CALSONIC CORP
- [A] US 2002033385 A1 20020321 - ALTE MICHAEL C [US], et al

Cited by

CN109014759A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

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