

Title (en)
Exhaust system for motor vehicles

Title (de)
Auspuffanlage für Kraftfahrzeuge

Title (fr)
Pot d'échappement de véhicule automobile

Publication
EP 0780552 B1 20010912 (FR)

Application
EP 96402533 A 19961126

Priority
FR 9515087 A 19951220

Abstract (en)
[origin: EP0780552A1] A vehicle engine exhaust silencer comprises outer and inner tubular shells (1,2), the inner shell (2) enclosing an assembly of perforated tubes (4) and transverse baffles (5) forming a chicane. The assembly (4,5) and possibly also the inner shell (2) are made of enamelled steel sheet, the steel containing by weight in thousandths of percent 0-100 carbon, 0-500 manganese, 0-30 phosphorus, 0-40 sulphur, 0-60 aluminium, 0-200 titanium, 0-6 copper, and 0-15 nitrogen and the remainder of iron and residual impurities. The steel is hot-rolled to form a strip with a final rolling temperature above point Ar3, wound into a roll at above 600 (preferably above 750 or 700) degrees C and thereafter cold-rolled and annealed prior to enamelling.

IPC 1-7
F01N 7/16; C22C 38/00; C21D 8/02

IPC 8 full level
F01N 1/08 (2006.01); **C21D 8/02** (2006.01); **C22C 38/00** (2006.01); **F01N 13/16** (2010.01)

CPC (source: EP KR US)
C21D 8/0226 (2013.01 - EP US); **C22C 38/00** (2013.01 - EP US); **F01N 1/00** (2013.01 - KR); **F01N 13/16** (2013.01 - EP US);
F01N 2510/08 (2013.01 - EP US)

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)
EP 0780552 A1 19970625; EP 0780552 B1 20010912; AT E205580 T1 20010915; DE 69615137 D1 20011018; DE 69615137 T2 20020620;
DK 0780552 T3 20011231; ES 2161997 T3 20011216; FR 2742802 A1 19970627; FR 2742802 B1 19980130; JP H09189223 A 19970722;
KR 970044261 A 19970726; PT 780552 E 20020228; US 5739485 A 19980414

DOCDB simple family (application)
EP 96402533 A 19961126; AT 96402533 T 19961126; DE 69615137 T 19961126; DK 96402533 T 19961126; ES 96402533 T 19961126;
FR 9515087 A 19951220; JP 35527896 A 19961220; KR 19960069233 A 19961220; PT 96402533 T 19961126; US 77227296 A 19961220