

Title (en)

METHOD FOR PERMANENTLY OBTURATING HOLES, ESPECIALLY IN METAL SHEETS OR PLASTIC PARTS OF AUTOMOBILE BODIES

Title (de)

VERFAHREN ZUM DAUERHAFTEN VERSCHLIESSEN VON LÖCHERN INSBESONDERE IN BLECHEN ODER IN KUNSTSTOFFTEILEN VON AUTOMOBILKAROSSERIEN

Title (fr)

PROCEDE POUR OBTURER DE MANIERE DURABLE DES TROUS, EN PARTICULIER DES TROUS DANS DES TOLES OU DES PIECES EN PLASTIQUE DE CARROSSERIES DE VEHICULES AUTOMOBILES

Publication

EP 1735206 A1 20061227 (DE)

Application

EP 05747794 A 20050311

Priority

- EP 2005051101 W 20050311
- DE 102004018047 A 20040408

Abstract (en)

[origin: WO2005097582A1] The invention relates to a method for permanently obturating holes, especially in metal sheets or plastic parts of automobile bodies. The inventive method is characterized by using a punched article which is at least partially provided on one side with an adhesive material and includes an especially textile support whose surface is greater than the surface of the hole to be obturated and which is especially provided with a non-expanded expandable body in the center of the adhesive side. The punched article is fixed on the hole together with the support in such a manner that the hole is completely covered by the punched article and the expandable body comes to rest inside the hole. The punched article and the expandable body are heated to such an extent that the expandable body expands, heat is supplied until the expanded expandable body completely fills and/or covers the hole, and the expanded expandable body cools off and cures.

IPC 8 full level

B60R 13/08 (2006.01); **B62D 25/24** (2006.01); **D06N 3/00** (2006.01)

CPC (source: EP KR US)

B29C 44/188 (2013.01 - EP US); **B60R 13/08** (2013.01 - KR); **B60R 13/0892** (2013.01 - EP US); **B62D 25/00** (2013.01 - KR); **B62D 25/24** (2013.01 - EP KR US); **C09J 7/21** (2017.12 - EP US); **D06N 3/00** (2013.01 - KR); **B60R 13/0853** (2013.01 - EP US); **C09J 2301/122** (2020.08 - EP US); **C09J 2400/263** (2013.01 - EP US); **C09J 2407/00** (2013.01 - EP US)

Citation (search report)

See references of WO 2005097582A1

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005097582 A1 20051020; CN 100500498 C 20090617; CN 1938187 A 20070328; DE 102004018047 A1 20051110; EP 1735206 A1 20061227; JP 2007532382 A 20071115; KR 20070012463 A 20070125; MX PA06011298 A 20070116; US 2008029919 A1 20080207

DOCDB simple family (application)

EP 2005051101 W 20050311; CN 200580010441 A 20050311; DE 102004018047 A 20040408; EP 05747794 A 20050311; JP 2007506753 A 20050311; KR 20067023431 A 20061108; MX PA06011298 A 20050311; US 59973105 A 20050311