Title (en)

ROBUST CRASH DURABLE ADHESIVE BONDING OF BORON STEEL

Title (de)

CRASH-BESTÄNDIGES KLEBEN VON BOR-STAHL

Title (fr)

LIAISON ADHESIVE DURABLE RESISTANTE AUX IMPACTSPOUR L'ACIER AU BORE

Publication

**EP 3181716 A1 20170621 (EN)**

Application

**EP 15200622 A 20151217**

Priority

EP 15200622 A 20151217

Abstract (en)

Method for selectively removing at least part of an Aluminium-Silicon (Al-Si) coating (11) from Al-Si-coated Boron steel (10), which comprises the steps of bonding an offer strip (12) to said Al-Si-coated Boron steel (10) using an adhesive (13), curing said adhesive (13), whereby said adhesive (13) adheres to said Al-Si coating (11), and subjecting said offer strip (12) to a peel and/or shear force (F peel and/or F shear ) to mechanically remove at least part of said Al-Si coating (11) from said Al-Si-coated Boron steel (10). The method can also comprise the step of bonding a component (15) to at least one point/line/area (14) on Al-Si-coated Boron steel (10) from which at least part of the Al-Si coating (11) has been removed.

IPC 8 full level

**C23C 2/12** (2006.01); **C23C 2/26** (2006.01)

CPC (source: EP US)

**C23C 2/12** (2013.01 - EP); **C23C 2/26** (2013.01 - EP US); C22C 21/02 (2013.01 - EP)

Citation (search report)

- [XI] KRELING ET AL: "ADHESIVE BONDING OF PRESS-HARDENED HIGH-STRENGTH STEELS FOR AUTOMOTIVE APPLICATIONS", 4 September 2015 (2015-09-04), XP055250191, Retrieved from the Internet <URL:https://www.researchgate.net/profile/Stefan_Kreling/publication/266892782_ADHESIVE_BONDING_OF_PRESS-HARDENED_HIGH-STRENGTH_STEELS_FOR_AUTOMOTIVE_APPLICATIONS/links/55e974d308ae65b6389af4d0.pdf?inViewer=0&pdfJsDownload=0&origin=publication_detail> [retrieved on 20160215]
- [XI] MAN-SHIN TAN ET AL: "Adhesively Bonded Steel Structures", 1 May 2011 (2011-05-01), XP055250169, Retrieved from the Internet <URL:http://publications.lib.chalmers.se/records/fulltext/152928.pdf> [retrieved on 20160215]

Designated contracting state (EPC)

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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