

Title (en)
REINFORCING ELEMENT FOR AUTOMOBILE TAILGATE INNER PANEL

Title (de)
VERSTÄRKUNGSELEMENT FÜR DIE INNENVERKLEIDUNG EINER KRAFTFAHRZEUGHECKKLAPPE

Title (fr)
ÉLÉMENT DE RENFORT POUR PANNEAU INTERNE DE HAYON D'AUTOMOBILE

Publication
EP 3737576 A4 20210303 (EN)

Application
EP 18899142 A 20181210

Priority
• CN 201810022400 A 20180110
• CN 2018119977 W 20181210

Abstract (en)
[origin: WO2019137130A1] A reinforcing element for an automobile tailgate inner panel (200) is disclosed, the automobile tailgate inner panel (200) comprising a window mounting hole (201), provided in its upper part, and a D pillar region (202) located on both sides of the window mounting hole (201), the reinforcing element comprises a pair of reinforcing components (100) disposed symmetrically in the D pillar region (202), each reinforcing component (100) being formed by a first lateral wall (1), a second lateral wall (2), and a first bottom plate (3), a honeycomb structure (4) being located between the first lateral wall (1) and the second lateral wall (2), the overall reinforcing component (100) being formed by a composite material. A honeycomb-type composite material reinforcing element for an automobile tailgate inner panel (200) is provided which enjoys a high strength and a light weight, formed through a simple process with simplified molds, and having high dimensioning precision and stability.

IPC 8 full level
B60J 5/10 (2006.01)

CPC (source: CN EP)
B60J 5/0431 (2013.01 - EP); **B60J 5/0481** (2013.01 - EP); **B60J 5/107** (2013.01 - CN EP)

Citation (search report)
• [IA] DE 102004032109 A1 20060126 - AUDI AG [DE]
• [Y] CN 106004377 A 20161012 - CHONGQING CHANGAN AUTOMOBILE CO LTD
• [Y] CN 205997688 U 20170308 - JASMIN INT AUTO RES &DEVELOPMENT (BEIJING) CO LTD
• [A] FR 2967936 A1 20120601 - FAURECIA BLOC AVANT [FR]
• See also references of WO 2019137130A1

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)
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WO 2019137130 A1 20190718; CN 108116205 A 20180605; CN 108116205 B 20240329; EP 3737576 A1 20201118; EP 3737576 A4 20210303

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CN 2018119977 W 20181210; CN 201810022400 A 20180110; EP 18899142 A 20181210