

Title (en)

INTEGRATED ELECTRONIC COMPONENT IN VEHICLE BODY

Title (de)

INTEGRIERTE ELEKTRONISCHE KOMPONENTE IN EINEM WAGENKASTEN

Title (fr)

COMPOSANT ÉLECTRONIQUE INTÉGRÉ DANS UNE CARROSSERIE DE VÉHICULE

Publication

EP 3532367 A1 20190904 (EN)

Application

EP 17864469 A 20171026

Priority

- US 201662415423 P 20161031
- US 201715656980 A 20170721
- US 2017058399 W 20171026

Abstract (en)

[origin: WO2018081338A1] An electronic component is integrated into a vehicle body component, such as an automobile, a bicycle, etc., and may be an electronic lighting material and/or an electronic sensor. The vehicle body component is formed of multiple layers of a composite material that may be assembled to take the shape of a mold of a particular vehicle component. A sensor or lighting device is disposed in a void formed in the one or more of the layers of the composite material, and this device may be enclosed in the void by other layers. The lighting material and/or sensing mechanism are configured to connect to a power source via electrical wiring that is disposed either between or through the composite layers that form the vehicle body component and the vehicle body component is then cured to form a hardened vehicle body part with the sensor or lighting device formed therein.

IPC 8 full level

B62J 6/00 (2006.01); **B62J 23/00** (2006.01); **B62J 35/00** (2006.01); **F21K 9/64** (2016.01); **F21V 23/00** (2015.01); **F21Y 115/10** (2016.01)

CPC (source: CN EP US)

B60Q 1/00 (2013.01 - CN); **B60Q 1/2619** (2013.01 - EP US); **B60Q 1/2623** (2013.01 - EP); **B60Q 1/2696** (2013.01 - EP);
B60Q 1/28 (2013.01 - EP); **B60Q 1/32** (2013.01 - EP); **B60Q 1/323** (2013.01 - EP US); **B60Q 1/34** (2013.01 - CN); **B60Q 1/44** (2013.01 - CN);
B60R 25/25 (2013.01 - CN); **B60R 25/252** (2013.01 - CN); **B62J 6/26** (2020.02 - EP); **B62J 11/19** (2020.02 - EP US);
B62J 45/40 (2020.02 - EP US); **B62J 50/25** (2020.02 - EP US); **B62K 3/04** (2013.01 - EP); **B62K 19/16** (2013.01 - EP);
B62K 19/32 (2013.01 - EP); **B62K 19/36** (2013.01 - EP); **B62K 19/40** (2013.01 - EP); **F21S 8/00** (2013.01 - CN); **F21V 5/04** (2013.01 - CN);
F21V 23/002 (2013.01 - CN); **B62J 6/02** (2013.01 - EP US); **B62J 6/045** (2020.02 - EP US); **B62J 6/055** (2020.02 - EP US);
F21V 2200/10 (2015.01 - CN); **F21Y 2115/10** (2016.07 - CN)

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)

WO 2018081338 A1 20180503; CA 3042397 A1 20180503; CN 110167833 A 20190823; CN 110167833 B 20211109;
CN 113771740 A 20211210; EP 3532367 A1 20190904; EP 3532367 A4 20200708

DOCDB simple family (application)

US 2017058399 W 20171026; CA 3042397 A 20171026; CN 201780076109 A 20171026; CN 202111221472 A 20171026;
EP 17864469 A 20171026