

Title (en)

METHOD OF MANUFACTURE OF A MOTOR VEHICLE HYBRID COMPONENT WITH INJECTION MOLDED-PLASTIC CONNECTORS

Title (de)

VERFAHREN ZUM HERSTELLEN EINES HYBRIDBAUTEILS FÜR KRAFTFAHRZEUGE MIT SPRITZGUSS-KUNSTOFFVERBINDERN

Title (fr)

PROCÉDÉ DE FABRICATION D'UN COMPOSANT HYBRIDE À ÉLÉMENTS DE FIXATION EN PLASTIQUE MOULÉS PAR INJECTION POUR VÉHICULES AUTOMOBILES

Publication

EP 1545964 A1 20050629 (DE)

Application

EP 03793713 A 20030809

Priority

- DE 10237673 A 20020816
- EP 0308873 W 20030809

Abstract (en)

[origin: DE10237673A1] The component comprising a thin metal plate part(2) enclosed in injected plastic connects with an overlapping second part(3). Holes(4,5) in both the metal plate and second part align with each other and are penetrated by an injection molded plastic which connects both parts together. Further holes(7,8) in the metal plate and second part lie close to the first pair of holes and are also aligned with each other to allow a fastener to pass through. Fasteners comprise a bolt and a nut, the latter being welded to the rear side of the metal plate(2). The second part(3) may also comprise a metal plate near the fastening points and can be a hybrid component. An Independent claim is included for a method for repairing the claimed hybrid component when the second part is damaged and involves removal of the plastic connectors and separation of the nuts and bolts, renovation or replacement of the second part and reconnection with the nuts and bolts.

IPC 1-7

B62D 29/00

IPC 8 full level

B62D 25/08 (2006.01); **B62D 29/00** (2006.01)

CPC (source: EP)

B62D 25/084 (2013.01); **B62D 29/001** (2013.01); **B62D 29/004** (2013.01); **B62D 29/005** (2013.01)

Citation (search report)

See references of WO 2004022416A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

DE 10237673 A1 20040226; AU 2003255408 A1 20040329; EP 1545964 A1 20050629; WO 2004022416 A1 20040318

DOCDB simple family (application)

DE 10237673 A 20020816; AU 2003255408 A 20030809; EP 0308873 W 20030809; EP 03793713 A 20030809