

Title (en)

Stiffening element and stiffening system for attaching a plastic reservoir and for stabilising the connection between motor bloc and gear box casing

Title (de)

Versteifungselement und Versteifungssystem zur Befestigung eines Kunststoffbehälters und zur Stabilisierung der Verbindung von Motorblock und Getriebegehäuse in Kraftfahrzeugen

Title (fr)

Élément et système raidisseur pour monter un réservoir en matière plastique et pour stabiliser la connection entre bloc moteur et boîte de vitesses

Publication

EP 1647680 A1 20060419 (DE)

Application

EP 04105061 A 20041014

Priority

EP 04105061 A 20041014

Abstract (en)

Stiffening element (1) for stiffening a synthetic plastic container and for stabilizing the joint between the engine block and gearbox of a vehicle including a first vertical wall (2) and a second vertical wall (4). In the installed state, the upper edge of wall (2) at the lower edge of the plastic container flange is properly matching (sic) and form-closed (sic), and the fixing point (3) projects above the upper edge of wall (2).

IPC 8 full level

F01M 11/00 (2006.01)

CPC (source: EP)

F01M 11/0004 (2013.01); **F01M 2011/002** (2013.01); **F01M 2011/0054** (2013.01); **F01M 2011/0058** (2013.01); **F01M 2011/0091** (2013.01)

Citation (search report)

- [X] EP 0811761 A1 19971210 - BAYERISCHE MOTOREN WERKE AG [DE]
- [A] WO 03102387 A1 20031211 - BAYER POLYMERS LLC [US]
- [A] PATENT ABSTRACTS OF JAPAN vol. 013, no. 223 (M - 829) 24 May 1989 (1989-05-24)

Cited by

JP2020056317A; DE102006002956A1; DE102006002956B4; DE202007008481U1; DE102010004493A1; CN102146821A; EP1614868A3; DE102010004493B4; US8347844B2; WO2008151916A1; EP2177725B2

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 PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1647680 A1 20060419; EP 1647680 B1 20070418; AT E360135 T1 20070515; DE 502004003555 D1 20070531

DOCDB simple family (application)

EP 04105061 A 20041014; AT 04105061 T 20041014; DE 502004003555 T 20041014