

Title (en)  
HINGE REINFORCEMENT FOR A MOTOR VEHICLE DOOR HINGE

Title (de)  
SCHARNIERVERSTÄRKUNG FÜR EIN KRAFTFAHRZEUGTÜRSCHARNIER

Title (fr)  
SYSTEME DE RENFORT POUR CHARNIERE DE VEHICULE AUTOMOBILE

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Application  
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Abstract (en)  
[origin: WO2006027351A1] The invention relates to a hinge reinforcement for a motor vehicle door hinge (1) particularly for pivotally fastening a tailgate in which a fastening device (2) supporting the hinge pin (5) and being able to be joined to the body (3) of the corresponding motor vehicle, and a hinge bracket (6) that can be joined to the vehicle door (7) are provided. The hinge bracket (6), on its side facing the hinge pin (5), has two interspaced bearing arms (9) that can pivot around the hinge pin (5). The aim of the invention is to be able to use cost-effective standard hinges (1) even in automatically operable vehicle doors (7) without having to provide special measures on the body (3) of the corresponding vehicle. To this end, the invention provides that the hinge reinforcement (10) is designed in such a manner that it has, at least in partial areas, a shape corresponding to the bracket-like shape of the hinge bracket (6) whereby being able to be joined to the hinge bracket (6) in a positive manner. The first end (11) of the hinge reinforcement (10) facing the hinge pin (5) is provided with a fork-like shape so that it can be placed against the hinge pin (5) from below between the bearing arms (9) of the hinge bracket (6) whereby being supported against the hinge pin. In addition, the hinge reinforcement (10), on its side facing the hinge bracket (6), supports, in the area of the hinge bracket (6), a cam (12) that positively engages from above into a recess (13) of the hinge bracket (6) whereby preventing the hinge reinforcement (10) from falling out and pre-positioning it when the hinge reinforcement (10), after attaching to the hinge pin (5) is pivoted around the hinge pin (5) toward the hinge bracket (6). The fastening and introduction of forces ensue via a fastening element (8) between the hinge (1) and the vehicle door (7).

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