

Title (en)  
GAS SPRING SYSTEM FOR A VEHICLE

Title (de)  
GASFEDERSYSTEM FÜR EIN FAHRZEUG

Title (fr)  
SYSTÈME À RESSORT À GAZ POUR VÉHICULE [

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Application  
**EP 12189763 A 20090922**

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Abstract (en)  
[origin: EP2165911A1] The invention relates to a gas spring device for a vehicle, in particular a rail vehicle, comprising a gas spring unit (106) and an emergency spring unit (107), the gas spring unit comprising a first housing part (106.1), a second housing part (106.2) and a bellows (106.3). The bellows (106.3) moveably connects the first housing part (106.1) and the second housing part (106.2) such that a substantially gas tight gas spring chamber (106.4) is confined by the bellows (106.3), the first housing part (106.1) and the second housing part (106.2). The first housing part (106.1) is adapted to be connected to a loading structure (102) while the second housing part (106.2) is adapted to be connected to a support structure (103) adapted to support a load exerted by the loading structure (102). The gas spring unit (106) has an inflated state and a deflated state, the gas spring unit (106) being adapted to resiliently support the load exerted by the loading structure (102) on the support structure (103) in the inflated state, the emergency spring unit (107) being adapted to resiliently support the load exerted by the loading structure (102) on the support structure (103) in the deflated state. The emergency spring unit (107) has a first end (107.3) and a second end (107.4) and a longitudinal axis (107.5) extending between the first end and the second end, the emergency spring unit (107) being connected to the first housing part (106.1) or the second housing part (106.2) in such a manner that one end (107.4) of the emergency spring unit (107), in the inflated state, is a free end. The free end (107.4) of the emergency spring unit (107) is located closer to the bellows (106.3) than the other end (107.3) of the emergency spring unit (107).

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