

Title (en)  
PLUNGER BUFFER

Title (de)  
HÜLSENPUFFER

Title (fr)  
TAMPON PLONGEUR

Publication  
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Application  
**EP 01956561 A 20010725**

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Abstract (en)  
[origin: WO0209996A1] The invention relates to a plunger buffer for mobile support structures (2), in particular for rail vehicles, comprising a buffer housing (10), a baseplate (11) that is fastened to the support structure (2) in a fixed manner, a guide plunger (12) attached to the baseplate (11) and a displacement member (13) that can be displaced in relation to said guide plunger (12). The displacement member (13) is directed in its displacement by the guide plunger (12). The plunger buffer also comprises a force transmission member (20) for flexibly coupling the displacement member (13) to the support structure (2). The buffer housing (10) is configured in such a way that the guide plunger (12) or the displacement member (13) is deformed in a controlled manner above a threshold value for the displacement of said displacement member (13) or for the forces to be transmitted, without deforming or altering the bedding of the baseplate (11). The aim of the invention is to ensure that the plunger buffer (1) can absorb energy by deformation and nevertheless be configured with the same dimensions and fittings as known plunger buffers, thus enabling plunger buffers to be interchangeable in existing rail vehicles. To achieve this, the force transmission member (20) is configured in such a way that in addition to the controlled deformation of the guide plunger (12) or the displacement member (13), the function of the force transmission member (20) is overridden above the threshold value for the displacement of the displacement member (13) or for the forces to be transmitted.

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