

Title (en)  
BOLSTER SUSPENSION FOR A RAILWAY VEHICLE BOGIE

Publication  
**EP 0229930 A3 19871202 (DE)**

Application  
**EP 86116404 A 19861126**

Priority  
DE 8535955 U 19851220

Abstract (en)  
[origin: US4723491A] A secondary suspension for a rail vehicle truck is arranged between a suspension support connected to the car body of the vehicle and a spring support. It comprises several spring groups, whose spring elements each have a set of coil springs held by an upper and a lower spring plate and a metal-rubber spring element and are individually interchangeable. The spring elements are designed so that replacement of the spring groups can be carried out with the truck installed on the vehicle and without using a pressure stand or a lift. This goal is achieved by the fact that there are at least two diametrically opposed holder claws for spring tension holders on the upper and the lower spring plate of the spring groups, to which the spring tension holders are attached when the spring elements are compressed.

IPC 1-7  
**B61F 5/06**; **B61F 5/08**

IPC 8 full level  
**B61F 5/06** (2006.01); **B61F 5/08** (2006.01)

CPC (source: EP US)  
**B61F 5/08** (2013.01 - EP US); **Y10T 29/4973** (2015.01 - EP US); **Y10T 29/49824** (2015.01 - EP US)

Citation (search report)  
• [Y] US 3924540 A 19751209 - PODGAJNY THADDEUS W  
• [Y] GB 140419 A 19210421 - COMMW STEEL  
• [A] DE 1605056 A1 19710415 - KRUPP GMBH  
• [A] DE 7013634 U 19700709 - GOEHRUM GMBH [DE]

Cited by  
CN103523037A; CN102198834A; CN107351861A; US10279820B2; EP3691952A4; WO2013029924A1; DE102007026472A1; EP2199177A1; US8047514B2; EP2000383A2

Designated contracting state (EPC)  
AT CH DE ES FR IT LI

DOCDB simple family (publication)  
**US 4723491 A 19880209**; AT E61296 T1 19910315; CA 1283810 C 19910507; DE 3677940 D1 19910411; DE 8535955 U1 19860220; DK 588386 A 19870621; DK 588386 D0 19861208; EP 0229930 A2 19870729; EP 0229930 A3 19871202; EP 0229930 B1 19910306; ES 2022105 B3 19911201; TR 23057 A 19890214; YU 218286 A 19900430

DOCDB simple family (application)  
**US 94250486 A 19861216**; AT 86116404 T 19861126; CA 525888 A 19861219; DE 3677940 T 19861126; DE 8535955 U 19851220; DK 588386 A 19861208; EP 86116404 A 19861126; ES 86116404 T 19861126; TR 70786 A 19861222; YU 218286 A 19861218