

Title (en)
AXLE BOX SUSPENSION

Publication
EP 0357026 A3 19900516 (EN)

Application
EP 89115995 A 19890830

Priority
JP 21622088 A 19880901

Abstract (en)
[origin: EP0357026A2] There is provided an axle box suspension having an axle spring according to the present invention, wherein an axle box body is formed by providing an axle anchor rod at one end of the axle box, and the axle anchor rod is shaft-coupled to a truck frame through a resilient element, so that longitudinal, lateral and vertical swivel movement between the axle and the truck frame can be allowed by deforming the resilient element and the axle anchor rod without rattle, thereby the running stability of the vehicle is greatly improved. Further, since the axle box suspension does not have slides and gaps, a wear and a deterioration due to years of driving are eliminated, whereby replacement of the components will be obviated and maintenance thereof will be much more facilitated. Moreover, excellent advantages such as simplified structure, space-saving of the whole axle box suspension, reduction in its weight are provided.

IPC 1-7
B61F 5/30; **B61F 5/32**

IPC 8 full level
B61F 5/30 (2006.01); **B61F 5/32** (2006.01)

CPC (source: EP)
B61F 5/30 (2013.01); **B61F 5/325** (2013.01)

Citation (search report)
• [X] GB 2193941 A 19880224 - SIG SCHWEIZ INDUSTRIEGES
• [X] GB 780783 A 19570807 - MASCHF AUGSBURG NUERNBERG AG
• [A] US 4356775 A 19821102 - PATON H NEIL, et al
• [A] DE 1275567 B
• [X] DE 1138088 B 19621018 - ATLAS WERKE AG
• [A] DE 1150403 B 19630620 - KRAUSS MAFFEI AG

Cited by
DE4141463A1; AT407139B; WO2007071563A1; WO2007071564A1; TWI635008B

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0357026 A2 19900307; **EP 0357026 A3 19900516**; **EP 0357026 B1 19931103**; DE 68910440 D1 19931209; DE 68910440 T2 19940303; DE 68922410 D1 19950601; DE 68922410 T2 19950831; EP 0542722 A1 19930519; EP 0542722 B1 19950426

DOCDB simple family (application)
EP 89115995 A 19890830; DE 68910440 T 19890830; DE 68922410 T 19890830; EP 93101011 A 19890830