

Title (en)  
BOGIE FRAME FOR RAILWAY VEHICLES

Publication  
**EP 0345709 B1 19920715 (FR)**

Application  
**EP 89110160 A 19890605**

Priority  
• FR 8807621 A 19880608  
• FR 8808137 A 19880617

Abstract (en)  
[origin: EP0345709A1] The invention relates to a frame for a railway vehicle bogey, comprising two main sole bars (10, 20) connected by two transoms (30, 40), characterised in that it comprises at least one auxiliary sole bar (50, 60) connecting the two transoms. <IMAGE>

IPC 1-7  
**B61F 5/52**

IPC 8 full level  
**B61F 5/52** (2006.01)

CPC (source: EP)  
**B61F 5/52** (2013.01)

Cited by  
CN107470822A; CN102886634A; DE4326709A1; FR2800342A1; EP0441313A3; US5085151A; CN106740963A; EP0685377A1; FR2720362A1; US5653177A; CN103661475A; CN107207019A; US2018043909A1; RU2675757C1; WO0130629A1; US10745035B2; WO2016131691A1

Designated contracting state (EPC)  
DE ES FR GB IT SE

DOCDB simple family (publication)  
**EP 0345709 A1 19891213; EP 0345709 B1 19920715; EP 0345709 B2 19970618**; CA 1329055 C 19940503; DE 68902101 D1 19920820; DE 68902101 T2 19930204; DE 68902101 T3 19970821; ES 2034505 T3 19930401; ES 2034505 T5 19970801

DOCDB simple family (application)  
**EP 89110160 A 19890605**; CA 601970 A 19890607; DE 68902101 T 19890605; ES 89110160 T 19890605