

Title (en)  
BOGIE

Title (de)  
DREHGESTELL

Title (fr)  
BOGGIE

Publication  
**EP 3689701 A1 20200805 (EN)**

Application  
**EP 17926767 A 20171225**

Priority  
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Abstract (en)  
Provided is a bogie, including a framework (1), a gear box (2), a traction motor (3), a wheel pair (4), an axle (5), a six-link hollow shaft (6, 7), and a suspension cross beam (8), wherein the suspension cross beam (8) includes a beam body (81), a through groove (82) transversely provided on the beam body (81), and a bearing seat (83), which is arranged so as to transversely overhang at a groove opening at one end of the through groove (82) and which is fixedly connected to the beam body (81); one end, with the through groove (82), of the beam body (81) is fixedly connected to the traction motor (3) in a longitudinal direction, and a closed cavity formed after connection is in sleeve connection with an outer surface of the hollow shaft (6); the other end of the traction motor (3) is suspended on a middle cross beam (11) of the framework (1); one end, without the through groove (82), of the beam body (81) is hooked with a framework end beam (12); and a driven gear (21) of the gearbox (2) is in sleeve connection with the bearing seat (83) via a bearing (22). By means of elastic frame suspension of a driving device, the bogie solves the problem of the transverse instability of a heavy-duty freight electric locomotive during high-speed traveling. The gear box (2) uses a non-load structure so as to solve the problems of the gear box (2) having a complicated structure and being subject to a relatively heavy load of the gear box (2).

IPC 8 full level  
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