

Title (en)  
FRAME AND FREIGHT TRAIN

Title (de)  
RAHMEN UND GÜTERZUG

Title (fr)  
CHÂSSIS ET TRAIN DE MARCHANDISES

Publication  
**EP 3919340 C0 20231018 (EN)**

Application  
**EP 20856519 A 20200807**

Priority  
• CN 201910801353 A 20190828  
• CN 2020107643 W 20200807

Abstract (en)  
[origin: EP3919340A1] Disclosed are a vehicle frame and a freight train. The vehicle frame includes a first longitudinal beam (10), a second longitudinal beam (20), a first traction beam (30), and a second traction beam (40), wherein an extension direction of the first longitudinal beam (10) and an extension direction of the second longitudinal beam (20) are both parallel to a running direction of the train, and the first longitudinal beam (10) and the second longitudinal beam (20) are arranged at an interval in a direction parallel to a horizontal plane; and a front end of the first longitudinal beam (10) and a front end of the second longitudinal beam (20) are connected by the first traction beam (30), and a rear end of the first longitudinal beam (10) and a rear end of the second longitudinal beam (20) are connected by the second traction beam (40). By the above arrangement, when the train runs, a bogie drives the first traction beam (30) and the second traction beam (40) to move in an extension direction of a rail, and the first longitudinal beam (10) and the second longitudinal beam (20) run along with the train. Due to the fact that the extension direction of the first longitudinal beam (10) and the extension direction of the second longitudinal beam (20) are both parallel to the running direction of the train, compared with a way where side beams are arranged on a center beam and the extension direction of the side beams is perpendicular to the running direction of the train, resistance between the first longitudinal beam (10) and air and resistance between the second longitudinal beam (20) and the air are small, and air resistance during running of the train is reduced.

IPC 8 full level  
**B61F 1/08** (2006.01); **B61D 3/00** (2006.01); **B61D 3/20** (2006.01)

CPC (source: CN EP)  
**B61D 3/00** (2013.01 - CN EP); **B61F 1/08** (2013.01 - CN EP)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Participating member state (EPC – UP)  
AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI

DOCDB simple family (publication)  
**EP 3919340 A1 20211208**; **EP 3919340 A4 20220427**; **EP 3919340 B1 20231018**; **EP 3919340 C0 20231018**; CN 110356426 A 20191022;  
WO 2021036739 A1 20210304

DOCDB simple family (application)  
**EP 20856519 A 20200807**; CN 201910801353 A 20190828; CN 2020107643 W 20200807