

Title (en)  
ROLLER COASTER VEHICLE

Title (de)  
ACHTERBAHNFAHRZEUG

Title (fr)  
VEHICULE DE GRAND HUIT

Publication  
**EP 3216503 B2 20211006 (DE)**

Application  
**EP 16159842 A 20160311**

Priority  
EP 16159842 A 20160311

Abstract (en)  
[origin: CA3014712A1] The invention relates to a roller coaster vehicle guided along a rail structure extending in a two- or three-dimensional plane and having at least one passenger seat (3), which is fastened to a chassis (2) guided on the rail structure, wherein the passenger seat (3) is fastened to the chassis (2) by way of an axis of rotation (16, 17) extending in a longitudinal direction of the vehicle, and the rotation of the passenger seat (3) can be influenced manually during the ride of the roller coaster vehicle. According to the invention, a rotation about the axis of rotation (16, 17) can be influenced by the force of an airflow along adjustable air guiding wings (18, 19) on the vehicle.

IPC 8 full level  
**A63G 7/00** (2006.01)

CPC (source: EP US)  
**A63G 7/00** (2013.01 - EP US); **A63G 21/08** (2013.01 - US); **A63G 21/20** (2013.01 - US)

Citation (opposition)

Opponent :

- WO 0029086 A1 20000525 - LARSON INTERNATIONAL INC [US]
- EP 2399657 A1 20111228 - DISNEY ENTPR INC [US]
- US 2001037745 A1 20011108 - MARES JOHN F [US]
- WO 03082421 A2 20031009 - THRELKEL DAVID V [US]
- DE 202010000403 U1 20110805 - RAW TEX INTERNAT AG [LI]
- CN 202620681 U 20121226 - WENZHOU YITIAN AMUSEMENT EQUIPMENT CO LTD
- US 4842267 A 19890627 - KASTNER HELMUT [DE]
- Extract from newspaper 'Le Creusot' (pages 1, 3, 24)
- Youtube video at URL: <http://www.youtube.com/watch?v=P-8TxGD0-lc>
- Youtube video at URL: [http://www.youtube.com/watch?v=nZDy4om\\_gWY](http://www.youtube.com/watch?v=nZDy4om_gWY)
- Youtube video at URL: <http://www.youtube.com/watch?v=NngAhq7brYO>
- Youtube video at URL: <http://www.youtube.com/watch?v=zQ-gGS2fOA>
- Webpage at URL: <http://starparc.be/2014/01/pare-touristique-des-combes-france.html>
- Certification of verification test (Verification)
- Certification of training
- Certification of test (essai)
- Manual of the machine
- Video of the entire machine and plate
- Affidavit by Mr. Rousson
- Pictures and videos of the installation
- Official announcement from 'Regione Veneto'
- Document of adhesion to the official announcement
- Logbook of the installation
- Amusement today, vol. 16, June 2012
- Youtube video at URL: <http://www.youtube.com/watch?v=t6ilB7c6Wiw>
- Webpage at URL: <https://www.coasterfriends.de/forum/24-top-news/444-vom-sky-roller-zum-sky-fly-qerstlauer-loopingkarussell.html>
- Youtube video at URL: <http://www.youtube.com/watch?v=6emu0DFHVTI>
- Youtube video at URL: <http://www.youtube.com/watch?v=X152W-TXPIQ>
- <https://www.rideentertainment.com/press-release/a-new-attraction-from-gerstlauer-amusement-rides/>
- Webpage at URL: <https://www.parkworld-online.com/gerstlauer-takes-to-the-sky/>
- European Standard 'EN 13814', December 2004
- Auszug 'Seitenruder' aus Wikipedia
- Auszug 'Gierachse' aus Wikipedia

Cited by  
CN110935178A; US11491409B2; WO2022233802A1; FR3122583A1

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

DOCDB simple family (publication)  
**EP 3216503 A1 20170913; EP 3216503 B1 20190220; EP 3216503 B2 20211006**; CA 3014712 A1 20170914; CA 3014712 C 20220208; CN 108712924 A 20181026; CN 108712924 B 20201110; DK 3216503 T3 20190527; DK 3216503 T4 20211108; ES 2726701 T3 20191008; ES 2726701 T5 20220307; US 10799804 B2 20201013; US 2019091586 A1 20190328; WO 2017153358 A1 20170914

DOCDB simple family (application)  
**EP 16159842 A 20160311**; CA 3014712 A 20170306; CN 201780016257 A 20170306; DK 16159842 T 20160311; EP 2017055227 W 20170306; ES 16159842 T 20160311; US 201716082124 A 20170306