Title (en)

CRASH IMPACT ATTENUATOR SYSTEMS AND METHODS

Title (de)

AUFPRALLDÄMPFER UND VERFAHREN

Title (fr)

SYSTÈMES ET PROCÉDÉS D'ATTÉNUATEUR D'IMPACT DE COLLISION

Publication

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Application

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Priority

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Abstract (en)

[origin: US2021108383A1] A crash attenuator system for deployment in front of a fixed structure includes a rail extending along a length of the crash attenuator system and a plurality of diaphragms initially disposed in spaced relation along the length of the rail. Each of the plurality of diaphragms moves along the rail, so that when a front end of the crash attenuator system receives an impact force from a vehicle, a first one of the diaphragms moves rearwardly along the rail and impacts a second one of the diaphragms so that both the first and second diaphragms move further rearwardly along the rail, this process continuing with additional ones of the diaphragms until the impact forces have been fully attenuated. A tearing member on the crash attenuator system engages material forming a tearable member of the crash attenuator system, the tearing member tearing material forming the tearable member to increase attenuation of the impact force.

IPC 8 full level

E01F 15/14 (2006.01); **E01F 15/04** (2006.01)

CPC (source: CN EP KR US)

E01F 15/0423 (2013.01 - CN KR US); **E01F 15/146** (2013.01 - CN EP KR US)

Citation (search report)

- [XI] EP 1706544 B1 20100224 - EXODYNE TECHNOLOGIES INC [US]
- [XYI] US 2001014254 A1 20010816 - ALBRITTON JAMES R [US]
- [Y] US 2008085153 A1 20080410 - LATURNER JOHN F [US], et al
- [A] WO 2018151360 A1 20180823 - ETI LTD [KR], et al
- See also references of WO 2021076767A1

Designated contracting state (EPC)

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US 2021108383 A1 20210415; AU 2020368434 A1 20220414; AU 2020368434 B2 20230202; CA 3153150 A1 20210422; CA 3153150 C 20230620; CN 114364843 A 20220415; EP 4045718 A1 20220824; EP 4045718 A4 20231101; JP 2022543707 A 20221013; KR 20220035513 A 20220322; KR 20230074297 A 20230526; US 2023160162 A1 20230525; WO 2021076767 A1 20210422

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