

Title (en)

ELECTRO-HYDRAULIC EXTERNALLY POWERED VEHICLE BRAKE SYSTEM FOR AN AUTONOMOUSLY DRIVING LAND VEHICLE

Title (de)

ELEKTROHYDRAULISCHE FREMDKRAFT-FAHRZEUGBREMSANLAGE FÜR EIN AUTONOM FAHRENDES LANDFAHRZEUG

Title (fr)

SYSTÈME DE FREINAGE POUR VÉHICULE ÉLECTROHYDRAULIQUE ASSISTÉ PAR UNE FORCE EXTÉRIEURE POUR UN VÉHICULE ROUTIER À DÉPLACEMENT AUTONOME

Publication

EP 3752398 A1 20201223 (DE)

Application

EP 18829220 A 20181206

Priority

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- EP 2018083834 W 20181206

Abstract (en)

[origin: WO2019158242A1] The invention relates to an electro-hydraulic externally powered vehicle brake system (1) for a passenger car driving autonomously on public roads. The invention proposes two externally powered braking pressure generators (2, 3) which are independent of one another, one of which preferably comprises an electromagnetically drivable externally powered piston-cylinder unit (4) and the other of which preferably comprises two hydraulic pumps (22). Each externally powered braking pressure generator (2, 3) comprises brake fluid reservoirs (10, 28), which are preferably divided into chambers (9, 30) and are jointly connected to a further brake fluid reservoir (31), which is preferably not divided into chambers. The additional brake fluid reservoir (31) preferably comprises a brake fluid sensor (33), which can detect loss of brake fluid owing to leakage at any point in the externally powered vehicle braking system (1). Owing to short lines, the brake fluid reservoirs (10, 28) bring about low flow resistances and, as a result, a rapid build up of pressure, even if the brake fluid is cold and thus viscous.

IPC 8 full level

B60T 8/40 (2006.01)

CPC (source: EP KR US)

B60T 7/042 (2013.01 - KR); **B60T 8/4081** (2013.01 - EP KR US); **B60T 11/26** (2013.01 - KR); **B60T 13/686** (2013.01 - US); **B60T 7/042** (2013.01 - EP); **B60T 11/26** (2013.01 - EP); **B60T 13/662** (2013.01 - US); **B60T 2220/04** (2013.01 - US); **B60T 2270/403** (2013.01 - US); **B60Y 2400/81** (2013.01 - KR US)

Citation (search report)

See references of WO 2019158242A1

Designated contracting state (EPC)

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