

Title (en)
ELECTRONICALLY CONTROLLABLE PNEUMATIC BRAKING SYSTEM WITH FAILSAFE BRAKING APPLICATION FOR AUTONOMOUS DRIVING, HAVING ONLY ONE SHUTTLE VALVE

Title (de)
ELEKTRONISCH STEUERBARES PNEUMATISCHES BREMSYSTEM MIT EINER AUSFALLSICHEREN BREMSANWENDUNG FÜR EINEN AUTONOMEN FAHRBETRIEB MIT NUR EINEM WECHSELVENTIL

Title (fr)
SYSTÈME DE FREINAGE PNEUMATIQUE À COMMANDE ÉLECTRONIQUE AVEC APPLICATION DE FREINAGE À SÉCURITÉ INTÉGRÉE POUR CONDUITE AUTONOME, COMPRENANT UNIQUEMENT UNE SOUPAPE NAVETTE

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Application
EP 22758228 A 20220801

Priority
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Abstract (en)
[origin: WO2023030797A1] The invention relates to an electronically controllable pneumatic braking system (204) for a utility vehicle (202), comprising a first control unit (410) for a primary system (B1) and a second control unit (420) for a first fallback level (B2), and a monostable fail-safety valve unit (1) which pneumatically connects a main port (20), which provides a first pressure (p1), and a failure brake port (22), wherein the fail-safety valve unit (1) is both connected to the two control units (410, 420) and in a fault situation (FF), power failure (SF) and/or diagnostic situation (FD) of the control units (410, 420). In order to provide the failure brake pressure (pN) for triggering a failure braking operation (BA), the failure brake port (22) is connected upstream of a functional pneumatic unit (430) of the primary system (B1) and/or of the first fallback level (B2) to the latter in such a way that both front axle service brake actuators (440a, 440b) and rear axle service brake actuators (442a, 442b, 442c, 442d) have a brake pressure (pBVA, pBHA) applied thereto in order to implement the failure braking operation (BA).

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