

Title (en)

AXLE TO AXLE SEALED AIRWAY FOR AN ONBOARD AUTOMATIC TIRE INFLATION SYSTEM

Title (de)

VON ACHSE ZU ACHSE ABGEDICHTETER LUFTKANAL FÜR EIN BORDEIGENES AUTOMATISCHES REIFENAUFPUMPSYSTEM

Title (fr)

CONDUIT D'AIR ÉTANCHE ALLANT D'UN ESSIEU À L'AUTRE POUR UN SYSTÈME DE GONFLAGE DES PNEUS AUTOMATIQUE ET EMBARQUÉ

Publication

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Application

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Abstract (en)

[origin: WO2012071579A1] An automatic onboard drive axle tire inflation system configured for use in vehicles having an articulating joint, including but not limited to drive axles that include a steerable axle and a vertically movable wheel such as used in independent suspension systems. Various embodiments of the invention deliver pressurized air from an inner axle to an outer axle, such as through a CV joint, which embodiments can withstand the significant heating generated by braking systems. One preferred embodiment includes a flexible tube extending from an inner drive axle to an outer drive axle, wherein the tube maintains a seal there between, and articulates in one or both drive axles to accommodate the varying distance and angle therebetween during the steering of the associated wheel. The system can be employed in any vehicle including an automobile, truck and tractor.

IPC 8 full level

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Citation (search report)

See references of WO 2012071579A1

Citation (examination)

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