

Title (en)

ELECTRONIC FUEL FILLING SYSTEM WITH IMPROVED SECURITY

Title (de)

ELEKTRONISCHES KRAFTSTOFFEINFÜLLSYSTEM MIT VERBESSERTER SICHERHEIT

Title (fr)

SYSTÈME ÉLECTRONIQUE DE REMPLISSAGE DE CARBURANT À SÉCURITÉ AMÉLIORÉE

Publication

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Application

EP 20900691 A 20200608

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Abstract (en)

[origin: WO2021133291A1] The invention consists of a main body (1) inserted onto the orifice of fuel tank trucks used for fuel transfer; a junction box (2) with a protection accommodation function which can be seen and accessed by a user on the side on the main body (1); an indicator (5) being present on the junction box (2) and notifying the user relating to the procedures; an electronic circuit (4) being present in the junction box (2) and enabling all electronic control; a battery (3) being on side of the junction box (2) on the main body (1) and providing the electronic circuit (4) with the electrical energy of need; a S adapter (6) inserted into standard overflow buckets of the main body (1) and facilitating inserting thereof into a narrow place; a ring magnet (9) being present on the S adapter and forming a magnetic field; a hall effect sensor (12) being present on the electronic circuit (4) and detecting the disassembly of the system with magnetic field distance measurement; a multiaxial accelerometer sensor (10) and a vibrometer sensor (11) detecting disassembly of the system by sensing movement and sudden high vibrations on the electronic circuit (4); a battery box (7) accommodating the battery (3); a battery card (8) being present inside the battery box (7) and determining voltage, current and time measurements of the battery; and a sensor determining fuel type, air and fuel quality passing through the main body (1) with the dielectric coefficient.

IPC 8 full level

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