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(72) Inventor; and
(71) Applicant: **MCNICHOLAS, Daniel** [US/US]; 36 Brook Lane, Palos Park, IL 60464 (US).

(74) Agent: **KRAFT, Clifford, H.**; 1354 Fairfield Ct., Naperville, IL 60565 (US).

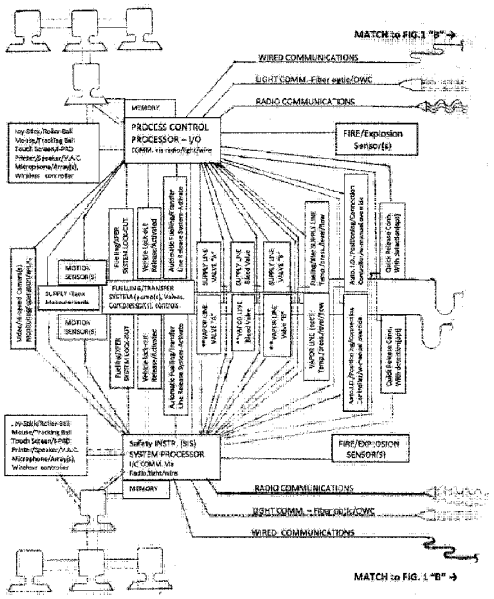
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(54) **Title:** SAFE TRANSPORTATION SYSTEM OPERATIONS

Fig. 1A



(57) **Abstract:** Multiply redundant safety system(s) that protects humans and assets while fueling vehicles, and/or transferring /fueling/tank exchanging of on road/off road, marine, aircraft, spacecraft, rockets, and all other vehicles/vessels utilizing Compressed and/or Liquefied Gas Fuels/compound(s), utilizing Hydrogen and/or Natural Gas Chemical Family of Natural Gas/Propane/Butane/ethane/ammonia/and/or any/all compound(s)/mixtures along with and/or without, oxidizer(s), such as Liquefied Oxygen, Oxygen Triplet (O3)/ozone/hydrogen peroxide/peroxide/solid oxidizer(s). One or more processors in combination with one or more system(s)/one or more sensor(s); in combination with one or more micro switches/one or more outputs/ actuator(s) which combine to detect any leaks/fire(s)/explosion/voltage(s)/hazards/vehicle position/ motion/vessel motion(s)/reusable tank/exchange tank/position(s)/arc's, spark(s)/and/or other hazards for rapid mitigation by locking out/stopping fueling/gas transfers/vehicle releasing/transfer line releasing. For different levels of safety, multiple combination(s) of various sensor(s)/ detector(s)/ input(s)/output(s)/ device(s)/system(s)/ action(s)/actuators, all may be standing alone and/or in any combination can be utilized.

WO 2022/256280 A1