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- (71) **Applicant (for all designated States except US):** **MOLECULAR POWER SYSTEMS, LLC** [US/US]; 540 West Avenue, Suite 1011, Miami Beach, Florida 33139 (US).
- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** **KIRCHOFF, James, A.** [US/US]; 5141 E. Hawthorne Place, Tucson, Arizona 85711 (US). **MARQUES, Jose, L.** [US/US]; 56 Orchard Lane, Scarsdale, New York 10583 (US). **NOTTKE, Francis, A.** [US/US]; 109 East Bearley, Oro Valley, Arizona 85737 (US). **SELIGMANN, Randolph, E.** [US/US]; 1830

E. Broadway Blvd. #124-343, Tucson, Arizona 85719 (US). **VASQUEZ, Peter, D.** [US/US]; 10263 East Covington, Tucson, Arizona 85746 (US). **MARSHALL, Timothy, M.** [US/US]; 4521 N. Via Entrada #186, Tucson, Arizona 85718 (US).

(74) **Agents:** **JONES, Huw, R.** et al.; c/o HAYES SOLOWAY P.C., 4640 E. Skyline Drive, Tucson, Arizona 85718 (US).

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(54) **Title:** CAVITATION ASSISTED SONOCHEMICAL HYDROGEN PRODUCTION SYSTEM

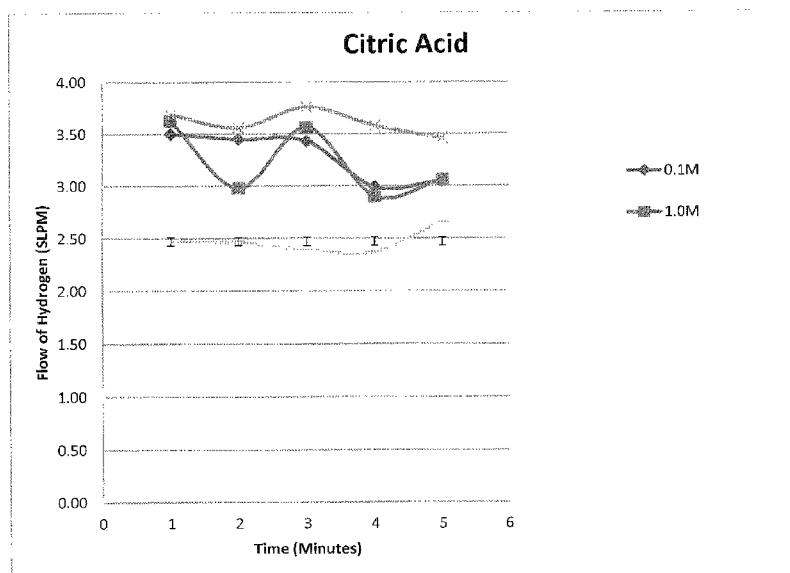


FIG. 13

(57) **Abstract:** Embodiments of the invention are directed to an electrolyte composition of matter comprising an aqueous solvent, at least one inorganic salt dissolved in said solvent; and at least one organic acid or salt thereof, the acid being substantially soluble in the aqueous solvent and being present at a concentration sufficient to support cavitation-assisted electrolytic combustion. Low molecular weight organic acids and inorganic salts are demonstrated herein as being useful for generating hydrogen.



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