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(71) Applicants (for all designated States except US): **THE UNIVERSITY OF BRITISH COLUMBIA** [CA/CA]; Industry Liaison Office, #103 - 6190 Agronomy Road, Vancouver, British Columbia V6T 1Z3 (CA). **GLOBAL HYDROFUEL TECHNOLOGIES INC.** [CA/CA]; 513 - 1489 Marine Drive, West Vancouver, British Columbia V7T 1B8 (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **TROCZYNSKI,**

Tomasz [CA/CA]; 1050 East 57th Avenue, Vancouver, British Columbia V5X 1T6 (CA). **CZECH, Edith** [DE/CA]; 406-160 West Keith Road, North Vancouver, British Columbia V7M 3M2 (CA).

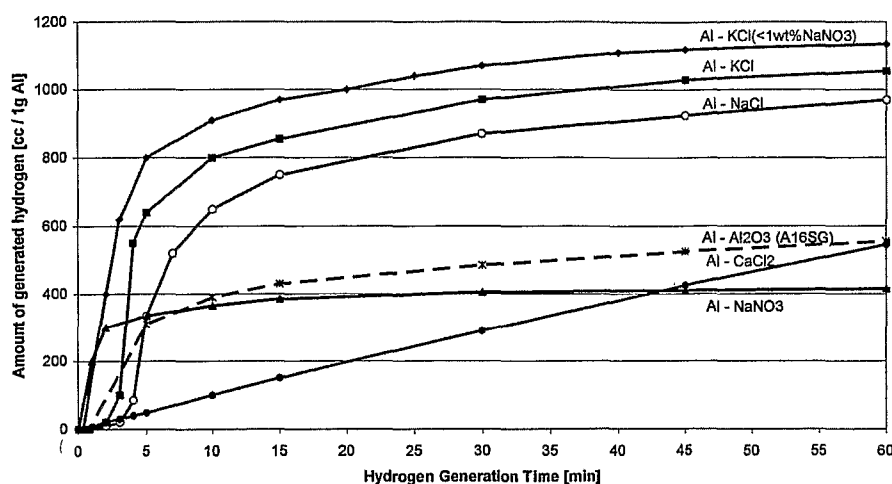
(74) Agent: **MBM & CO.**; 2200 - 200 Granville Street, Vancouver, British Columbia V6C 1S4 (CA).

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(54) Title: COMPOSITIONS AND METHODS FOR GENERATING HYDROGEN FROM WATER



Effect of different salts (WIS) on the total amount of hydrogen produced from 1g Al powder in one hour of Al corrosion reaction. (Theoretical limit: 1359cc H₂ / 1g Al at 25°C)

(57) Abstract: The present invention relates to methods, compositions and systems for producing hydrogen from water involving reacting metal particles with water in the presence of an effective amount of catalyst. In particular the invention pertains to methods, compositions and systems for producing hydrogen upon reaction of metal particles selected from the group consisting of aluminum (Al), magnesium (Mg), silicon (Si) and zinc (Zn) with water, in the presence of an effective amount of a catalyst, wherein the catalyst is a water-soluble inorganic salt.

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