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(74) Agents: **LUZZATTO, Kfir** et al.; Luzzatto & Luzzatto,
P.O. Box 5352, 84152 Beer-Sheva (IL).

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(71) Applicant (*for all designated States except US*): **STATE OF ISRAEL MINISTRY OF DEFENCE ARMAMENTS DEVELOPMENT AUTHORITY, RAFAEL** [IL/IL]; P.O. Box 2250, 31021 Haifa (IL).

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(72) Inventors: and

(75) Inventors/Applicants (*for US only*): **MACHADO, Dario** [IL/IL]; 5/7 Sigalit Street, 17093 Upper Nazareth (IL), **GOLAN, Shlomo** [IL/IL]; 5/5 Zev Vilnai Street, 32982 Haifa (IL), **LONDNER, Igal** [IL/IL]; 19/3 Eliezer Altar Street, 32984 Haifa (IL), **JACOBSON, Eli** [IL/IL]; 111 Einstein Street, 34601 Haifa (IL).

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(57) Abstract: A solid anode composite material for use in thermal batteries that comprises about 65-85% by weight (about 34 to 40 atom percent) particulate iron, about 15-35 % by weight (50 to 70 atom percent) lithium, and about 0.1-10 % by weight (1.7 to 2.3 atom percent) aluminum. Lithium and Aluminum are only slightly or not alloyed with the particulate iron. The iron and/or the aluminum may be in the form of a powder. The aluminum may be in the form of lithium-aluminum alloy.



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