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(21) International Application Number: PCT/US96/16076 ✓ (22) International Filing Date: 1 November 1996 (01.11.96) ✓ (71) Applicant: ^① KERR-McGEE CHEMICAL CORPORATION [US/US]; 123 Robert S. Kerr, Oklahoma City, OK 73125 (US). (72) Inventors: ^① SHEARGOLD, Stephen, W.; 1019 Northbrook Avenue, Edmond, OK 73034 (US); ^② ANDERSEN, Terrell, N.; 500 Concord Lane, Edmond, OK 73003 (US). (74) Agent: HANEGAN, Herbert, M.; 3100 Promenade II, 1230 Peachtree Street, N.E., Atlanta, GA 30309-3592 (US).		(81) Designated States: AU, BR, CA, JP, KR, MX, SG, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With international search report. With amended claims. NO PD. 1 appl¹. (see PF 24 of 16/7/98, merger) 2 Invs.
(54) Title: METHOD OF PREPARING $\text{Li}_{1+x}\text{Mn}_{2-x}\text{O}_4$ FOR USE AS SECONDARY BATTERY ELECTRODE ✓ (57) Abstract A continuous method of preparing a single phase lithiated manganese oxide intercalation compound of the formula $\text{Li}_{1+x}\text{Mn}_{2-x}\text{O}_4$ comprising the steps of: mixing intimately a lithium hydroxide or a lithium salt and a manganese oxide or a manganese salt; feeding the intimately mixed salts to a reactor; continuously agitating the mixed salts in the reactor; heating the agitated mixed salts in the reactor at a temperature of from about 650 °C to about 800 °C for a time not in excess of about 4 hours in an oxygen-containing atmosphere; and cooling the reacted product to less than about 200 °C in an oxygen-containing atmosphere for a time not in excess of about 2 hours.		