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(21) International Application Number: PCT/US97/09053 (22) International Filing Date: 22 May 1997 (22.05.97) (30) Priority Data: 08/653,464 24 May 1996 (24.05.96) US (71) Applicant: SRI INTERNATIONAL [US/US]; 333 Ravenswood Avenue, Menlo Park, CA 94025-3493 (US). (72) Inventors: NARANG, Subhash, C.; 728 Garland Drive, Palo Alto, CA 94303 (US). VENTURA, Susanna, C.; 424 Becker Lane, Los Altos, CA 94022 (US). ZHAO, Ming; 1010 Noel Drive #32, Menlo Park, CA 94025 (US). SMEDLEY, Stuart; 298 E. O'Keefe Street, Menlo Park, CA 94025 (US). KOOLPE, Gary; 2350 Laura Lane, Mountain View, CA 94043 (US). DOUGHERTY, Brian, J.; 1309 Mills Street #C, Menlo Park, CA 94025 (US). (74) Agent: FISH, Robert, D.; Suite 706, 1440 N. Harbor Boulevard, Fullerton, CA 92835 (US).		(81) Designated States: CA, CN, JP, KR, MX, SG, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>

(54) Title: NONFLAMMABLE/SELF-EXTINGUISHING ELECTROLYTES FOR BATTERIES**(57) Abstract**

Novel fire-retardant electrolyte compositions are provided. These compositions comprise a lithium salt dissolved in a fire-retardant solvent selected from the group consisting of phosphates, phospholanes, cyclophosphazenes, silanes, fluorinated carbonates, fluorinated polyethers and mixtures thereof. The electrolyte composition optionally contains a CO₂-generating compound. Also provided are fire-retardant batteries and fire-retardant conductive films formulated with such compositions, as well as methods of manufacturing such films.

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