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(21) International Application Number: PCT/US98/17516 (22) International Filing Date: 24 August 1998 (24.08.98) (30) Priority Data: 08/926,376 9 September 1997 (09.09.97) US (71) Applicant: PRIMEX TECHNOLOGIES, INC. [US/US]; 10101 9th Street North, St. Petersburg, FL 33716-3807 (US). (72) Inventors: HENRY, Guy, H., III; 8 Eastwood Lane, Marion, IL 62959 (US). OWENS, Michael, A.; 701 W. 5th Street, Johnson City, IL 62951 (US). TERRY, Jarrett, L.; 606 E. Cindy, Carbondale, IL 62901 (US). TUCKER, Mark, A.; 810 Texas Eastern Road, Buncombe, IL 62912 (US). BONE, Frank, M.; 107 Marilyn Drive, Carterville, IL 62918 (US). (74) Agents: ROSENBLATT, Gregory, S. et al.; Wiggin & Dana, One Century Tower, New Haven, CT 06508-1832 (US).		(81) Designated States: AU, BR, CA, CN, IL, JP, KR, NO, RU, SG, TR, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the</i> <i>claims and to be republished in the event of the receipt of</i> <i>amendments.</i>
(54) Title: INFRARED TRACER FOR AMMUNITION (57) Abstract A pyrotechnic composition that emits essentially only infrared radiation upon combustion contains at least one peroxide component, an oxidizer that is more energetic than the peroxide component, a coolant, a binder and silicon. In one embodiment, the peroxide component is a mixture of strontium peroxide and barium peroxide, the oxidizer more energetic than the peroxide component is barium nitrate, the coolant is magnesium carbonate, the binder is calcium resonate and the silicon has a minimum purity of 99.9 %. The pyrotechnic composition is useful as the combustible component of an infrared tracer.		