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(71) Applicant: **NANOSATISFI INC.** [US/US]; 466 8th Street, Ste 02, San Francisco, CA 94103 (US).(72) Inventor: **PLATZER, Peter**; 630 8th Street, Apt. 1, San Francisco, CA 94103 (US).(74) Agent: **PAK, Phoenix**; Troutman Sanders LLP, 405 Lexington Avenue, New York, NY 10174 (US).

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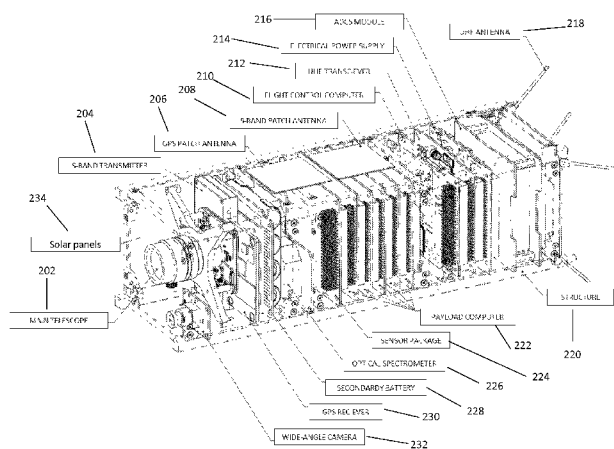


FIGURE 2

(57) **Abstract:** A large constellation of low-cost satellites with a satellite support and administration system that allows widespread user access to advanced satellite technology at extremely low costs. Any portion of the constellation can be tasked and configured for specific data capture. In one embodiment, a constellation of individual satellites are employed to concurrently collect occultation data from multiple GPSS originating signals that pass through atmospheric sections of interest. Alternately, the constellation can be configured as a vehicle location tracking system that receives multiple vehicle tracking signals and based thereon, track within a system grid each vehicle under surveillance. The system can use AIS for ocean going vessels, ADS-B for aircraft, and AEI for trains. Use of the system permits extended tracking of key cargos and the protection of vehicles from piracy and the like.

