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(71) Applicant (for all designated States except US): **EZ AS A DRINK PRODUCTIONS, INC.** [US/US]; 393 Rutland Avenue, San Jose, CA 95128 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **YANEV, Kostadin, Dimitrov** [BG/US]; 239 Michelle Lane, Alamo, CA 94507 (US). **MARINOV, Asen, Angelov** [US/US]; 62 Duane Street, Apt. 108, Redwood City, CA 94062 (US). **ANGELOV, Angel, Marinov** [US/US]; 62 Duane Street, Apt. 103, Redwood City, CA 94062 (US).(74) Agents: **ESPLIN, D. Benjamin** et al.; Pillsbury Winthrop Shaw Pittman LLP, P.O. Box 10500, McLean, VA 22102 (US).

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(54) Title: PHYSICAL ACTIVITY MONITORING SYSTEM

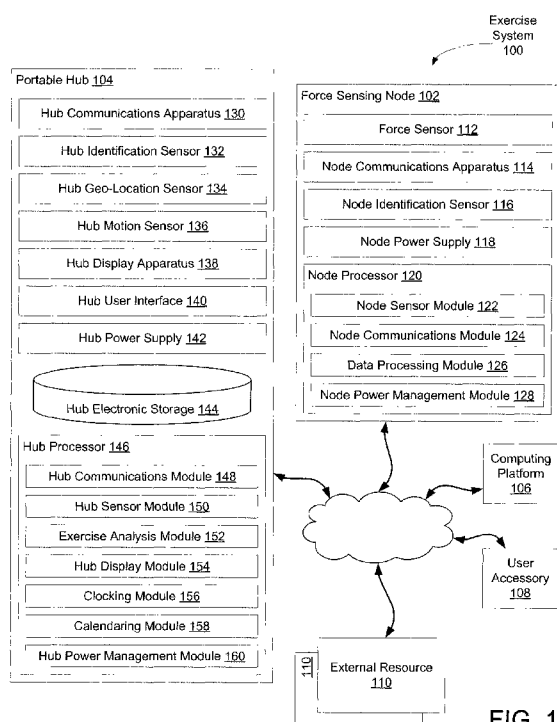


FIG. 1

(57) Abstract: An exercise system may be configured to gather and quantify data related to energy expenditure during physical activity. The exercise system may include at least one force sensing node and a portable hub that is physically separate and distinct from the at least one force sensing node. The at least one force sensing node may be configured to gather data related to energy expenditure during physical activity. The portable hub may be configured to quantify data related to energy expended during physical activity. For example, according to exemplary implementations, the portable hub may be configured to execute an exercise analysis module. The exercise analysis module may be configured to determine one or more exercise parameters based on an output signal generated at the at least one force sensing node responsive to force exerted on the at least one force sensing node during physical activity.

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