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(71) Applicant (for all designated States except US): **ISRAEL AEROSPACE INDUSTRIES LTD.** [IL/IL]; Ben Gurion International Airport, 70100 Lod (IL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CHERNOGUZ, Nahum** [IL/IL]; 22/7 Yasmin Street, 21940 Carmiel (IL). **KAGAN, Avraham** [IL/IL]; 3 Rambam Street, 47235 Ramat-Hasharon (IL).

(74) Agent: **REINHOLD COHN AND PARTNERS**; P.O.B. 4060, 61040 Tel Aviv (IL).

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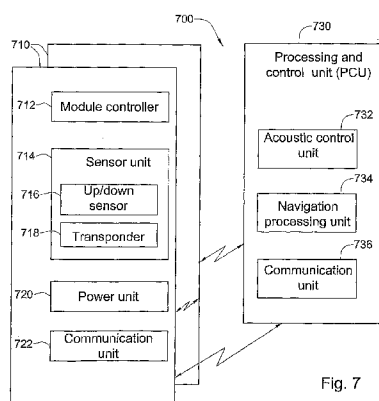


Fig. 7

(57) Abstract: An on-foot pedestrian navigation module useful for pedestrian navigation when operated with at least a control unit and another on-foot pedestrian navigation module, comprising (a) at least a first sensor unit and a second sensor unit, wherein each sensor unit including an up/down sensor adapted for sensing an 'up' condition and a 'down' condition associated with relative displacement of the module with respect to a surface, and a signal transmitter/receiver adapted, in response to an activation signal coming from a module controller, for generating a propagating signal (b) a module controller for controlling the operation of the module in response to a control signal coming from the control unit and (c) a communication unit for enabling said module to communicate with said at least the control unit and other module, thereby facilitating collecting motion data at the control unit and integrating the motion data with motion data coming from the other module, the motion data being indicative of a condition of each up/down sensor and receipt of the propagating signal by at least two sensor units of said other module, and wherein the motion data is useful for determining a momentary position of the pedestrian's foot during motion.

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