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(71) Applicant: HONEYWELL INTERNATIONAL INC. [US/US]; 101 Columbia Avenue, P.O. Box 2245, Morristown, NJ 07960 (US).

(72) Inventor: SABATINO, Anthony; 4427 Silver Arrow Dr., Albuquerque, NM 87114 (US).

(74) Agents: CRISS, Roger, H. et al.; Honeywell International Inc., 101 Columbia Avenue, P.O. Box 2245, Morristown, NJ 07960 (US).

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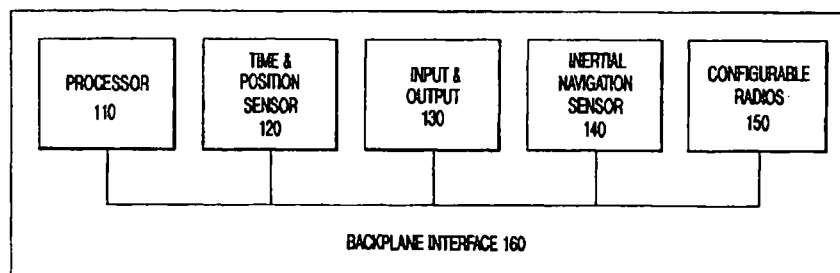
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(54) Title: EMBEDDED DIGITIZATION SYSTEM



EMBEDDED DIGITIZATION SYSTEM 100

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(57) Abstract: An embedded digitization system (100) which enables a military platform to receive, transmit and process a variety of types of information for a variety of purposes. The system includes a mission processing capability (110, 420), a digital message communications capability (150, 440), a time and position location and navigation capability (120, 140, 430), a weapons delivery system aim and shoot capability (130, 230, 450), a sensor input processing capability (130, 210, 420), a user interface capability (460), and an input/output processing capability (130). The system (100) exchanges information through digital message communications with other systems in a theater of operation. Information exchanged and processed by the system includes command and control information, situational information, intelligence information, mission information and host platform information. The system processes information received from digital messages, received from functions and sensors (120, 140) embedded in the present system, received from other equipment and sensors (210) on the host platform, and entered through user data entry devices (250) by users of the system. The system determined the geospatial attitude, position, and motion of the host platform, determines the attitude of moveable weapons delivery systems on the host platform, and determines the geospatial position and motion of a target with additional information from target tracking equipment. The system automatically aims and shoots weapons delivery systems (230), and provides visual aids (240) which allow users of the system to manually aim and shoot weapons delivery systems associated with the host platform. The system is implemented in as few as one piece of electronics equipment.



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