

(12) **United States Patent**
Geva

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(54) **PERSONAL AMBULATORY CELLULAR HEALTH MONITOR FOR MOBILE PATIENT**

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(73) Assignee: **Card Guard Scientific Survival Ltd., Rechovot (IL)**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(51) **Int. Cl.⁷** **H04Q 7/22**

(52) **U.S. Cl.** **702/188; 340/825.56**

(58) **Field of Search** **702/188, 127, 702/62, 122; 340/825.57, 825.58, 825.56**

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Primary Examiner—Marc S. Hoff

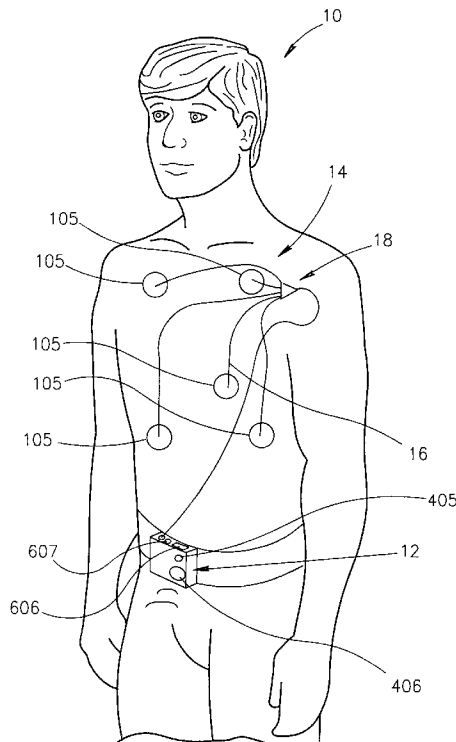
Assistant Examiner—Edward Raymond

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(57) **ABSTRACT**

Ambulatory patient monitoring apparatus including a portable housing including at least one physiological data input device operative to gather physiological data of the patient, location determination circuitry operative to determine geographic location information of the patient, cellular telephone communications circuitry for communicating the physiological data and the geographic location information to a central health monitoring station, voice communications circuitry whereby the patient conducts voice communications with a clinician at the central health monitoring station, digital signal processing circuitry for processing signals associated with any of the physiological data input device, the location determination circuitry, the cellular telephone communications circuitry, and the voice communications circuitry, and control circuitry for controlling any of the digital signal processing circuitry, the physiological data input device, the location determination circuitry, the cellular telephone communications circuitry, and the voice communications circuitry.

26 Claims, 12 Drawing Sheets



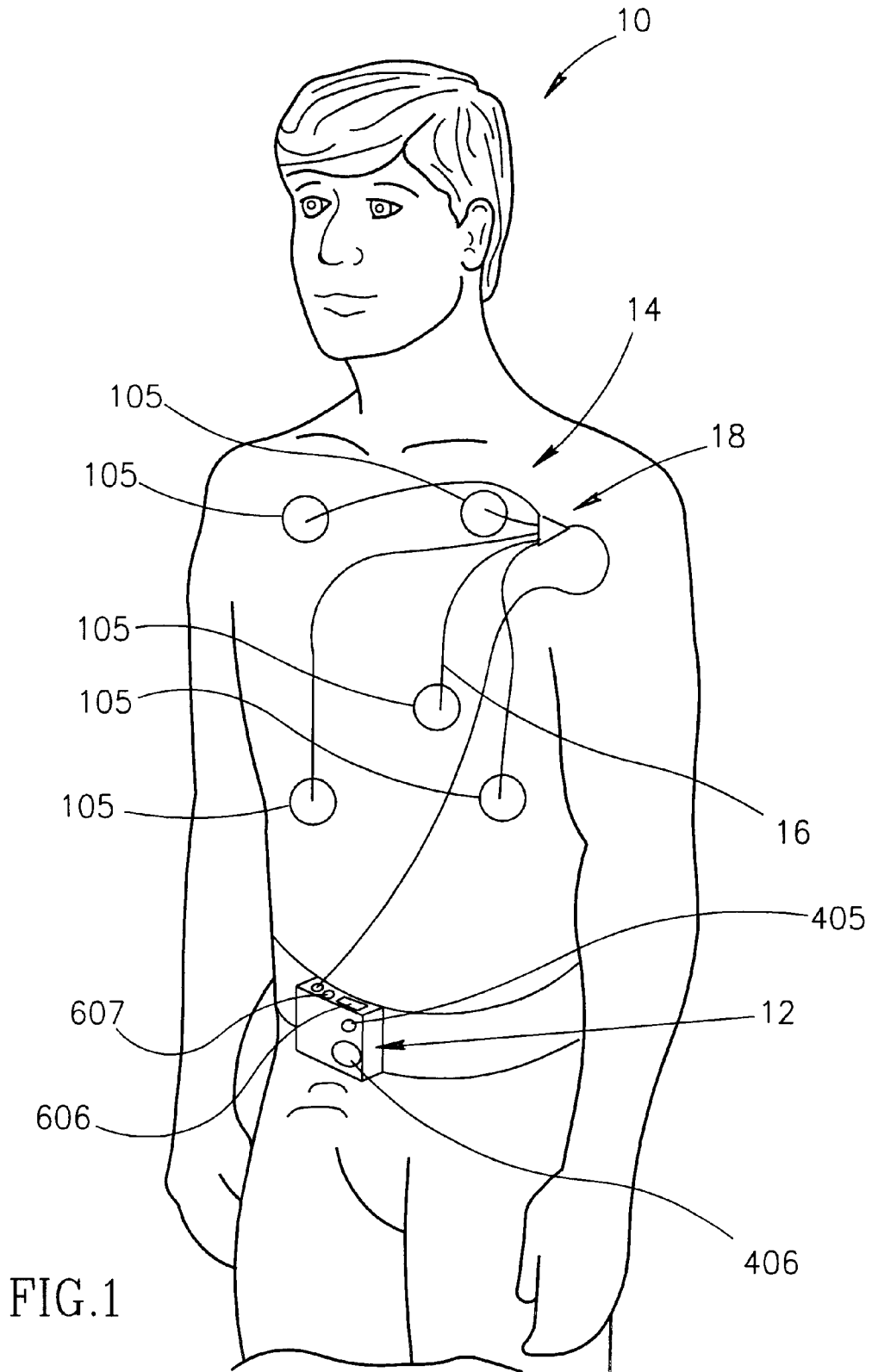


FIG. 1

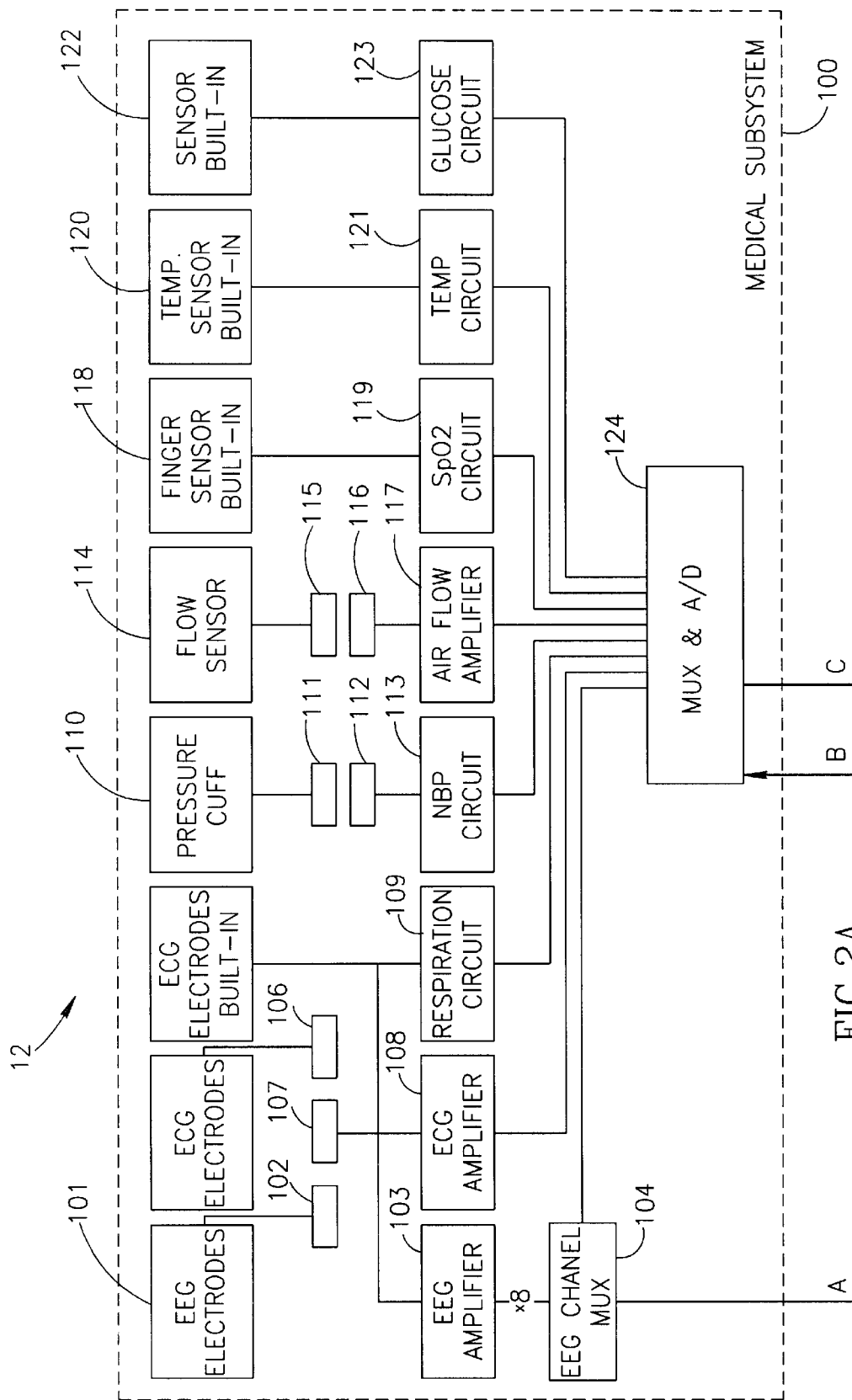


FIG. 2A

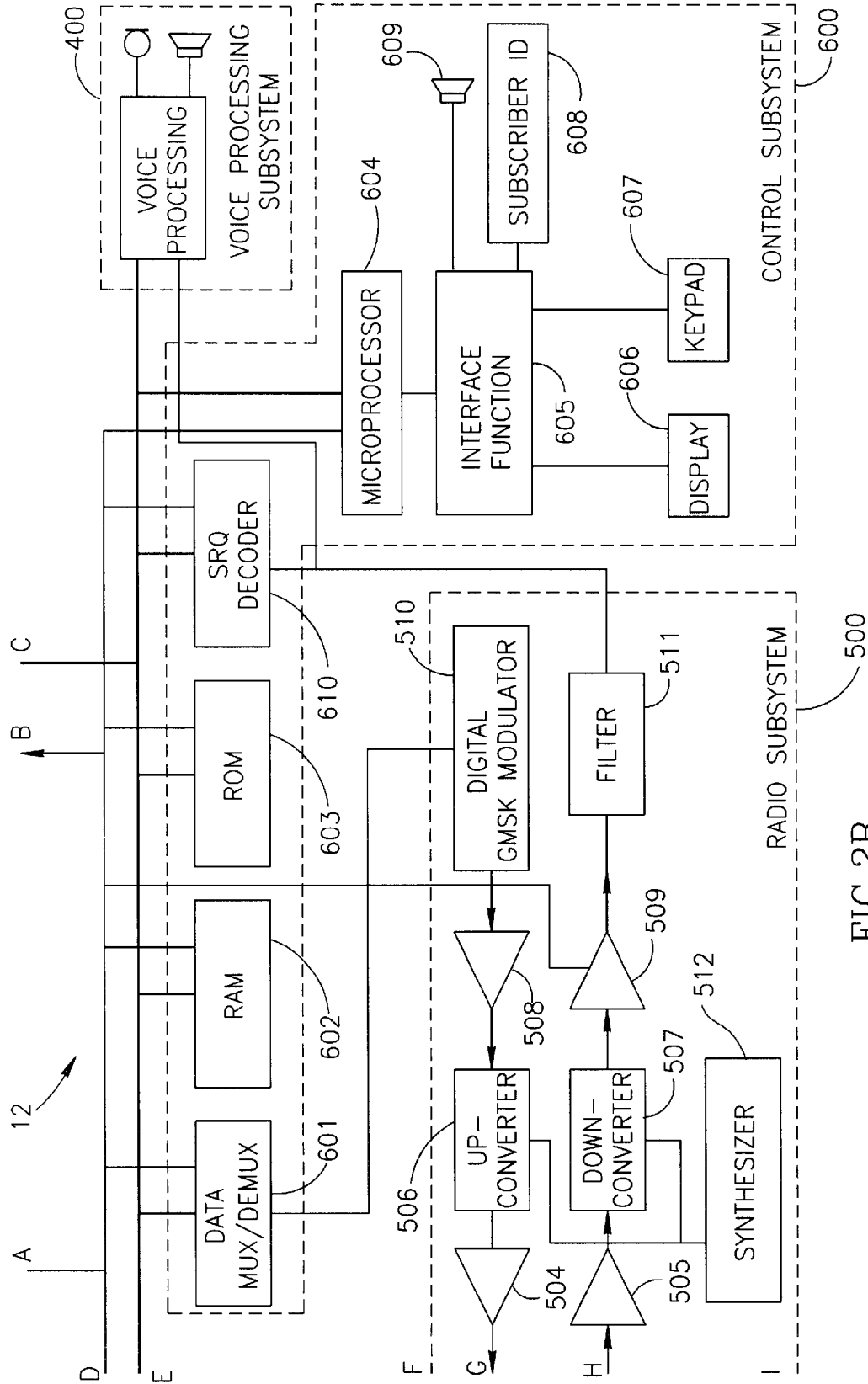


FIG.2B

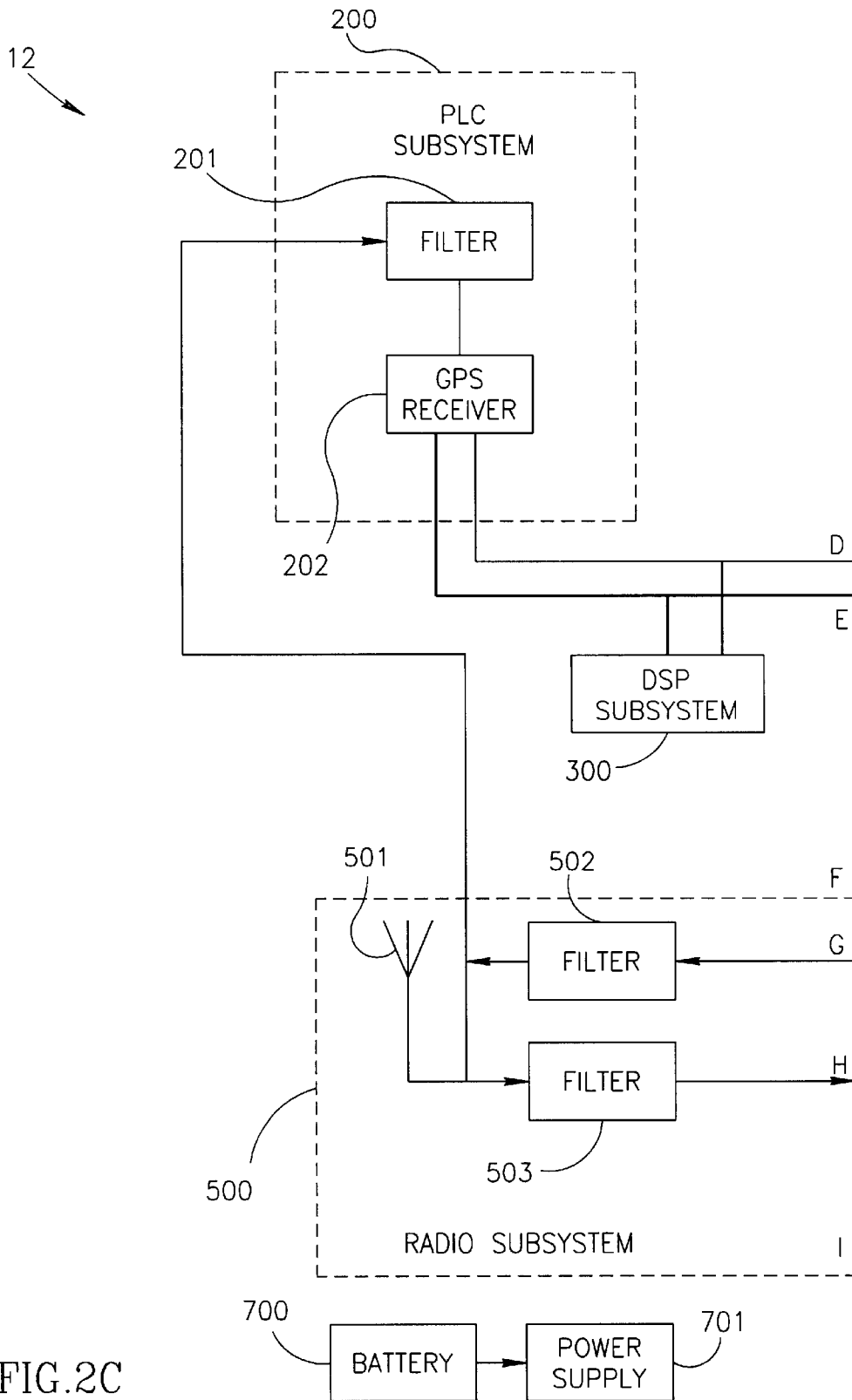


FIG. 2C

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