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# United States Patent [19]

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Cooper et al.

[45] Date of Patent: **Jun. 30, 1998**

[54] **SYSTEM AND METHOD FOR INTERFACING DIVERSELY CONTROLLED DEVICES TO A BUS CONNECTOR HAVING A COMMON SIGNAL FORMAT**

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### [57] ABSTRACT

A system for connecting a plurality of cellular telephones, each responsive to device-specific command signals for its operation, to an automotive electronics and communications system through a bus connector having a known universal signal format, includes a docking station having a cradle member shaped for receiving at least one cellular telephone. An interface unit contains the hardware and firmware drivers necessary for controlling the selected cellular telephone. A user selected cable having a specific signal path configuration selects the needed drivers. A second cable connects the interface unit with the bus connector for communicating signals therebetween.

[21] Appl. No.: **361,985**

[22] Filed: **Dec. 22, 1994**

[51] Int. Cl.<sup>6</sup> ..... **H04B 1/38**

[52] U.S. Cl. .... **455/89; 455/345; 455/127; 379/59; 439/502; 439/955**

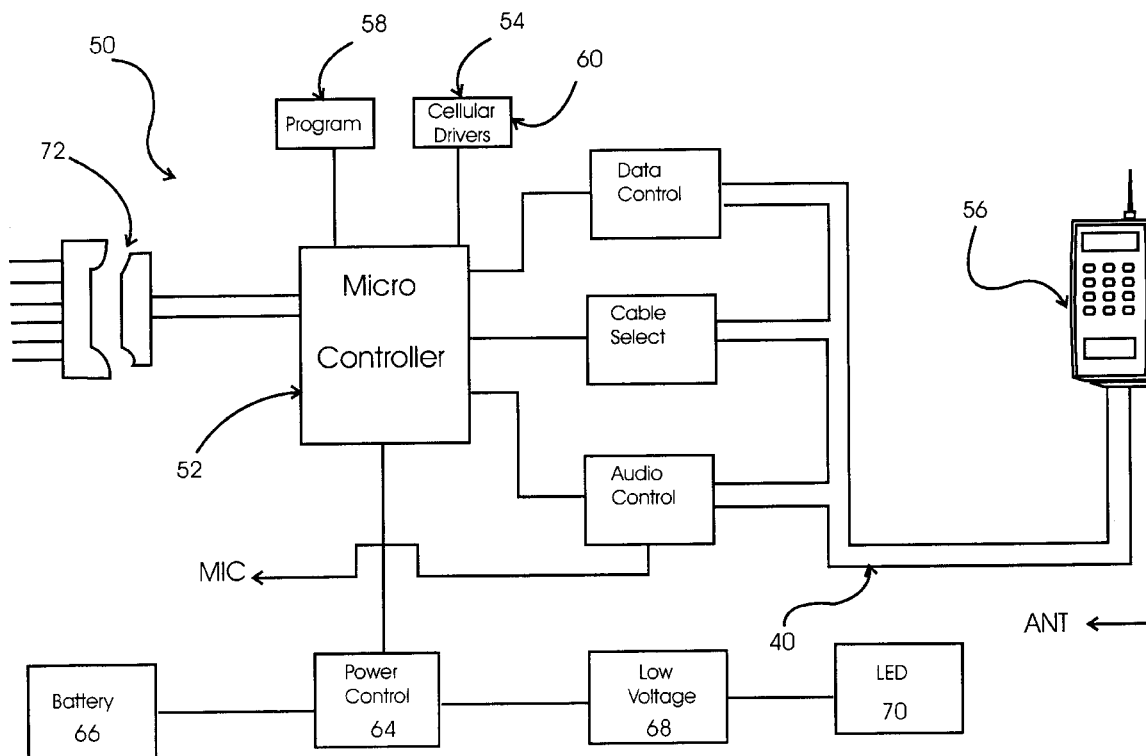
[58] **Field of Search** ..... 455/89, 90, 127, 455/128, 344, 345, 346, 347, 348, 349, 350, 351, 33.1; 379/58, 59, 63, 441, 442; 439/502, 638, 505, 955

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**42 Claims, 4 Drawing Sheets**



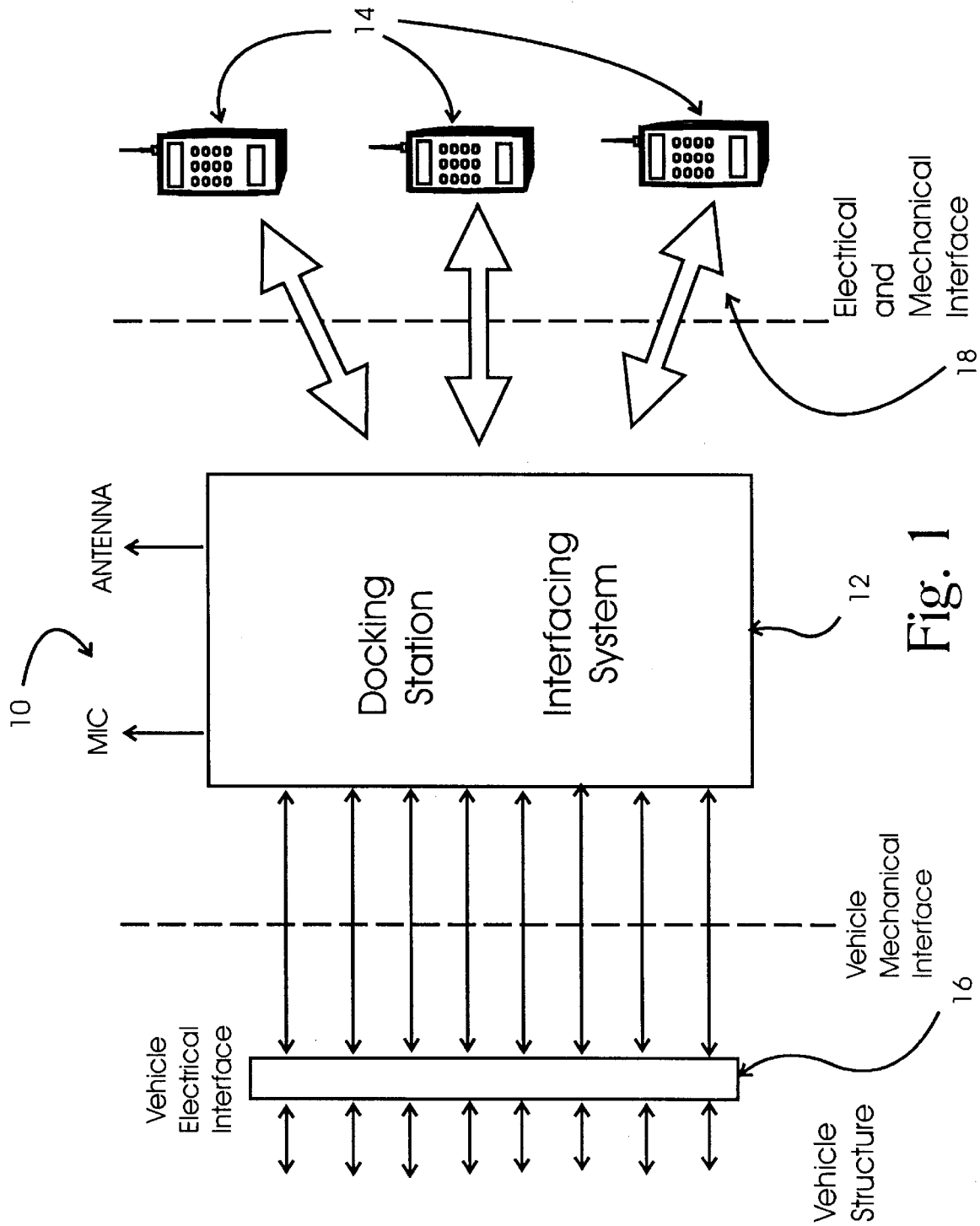


Fig. 1

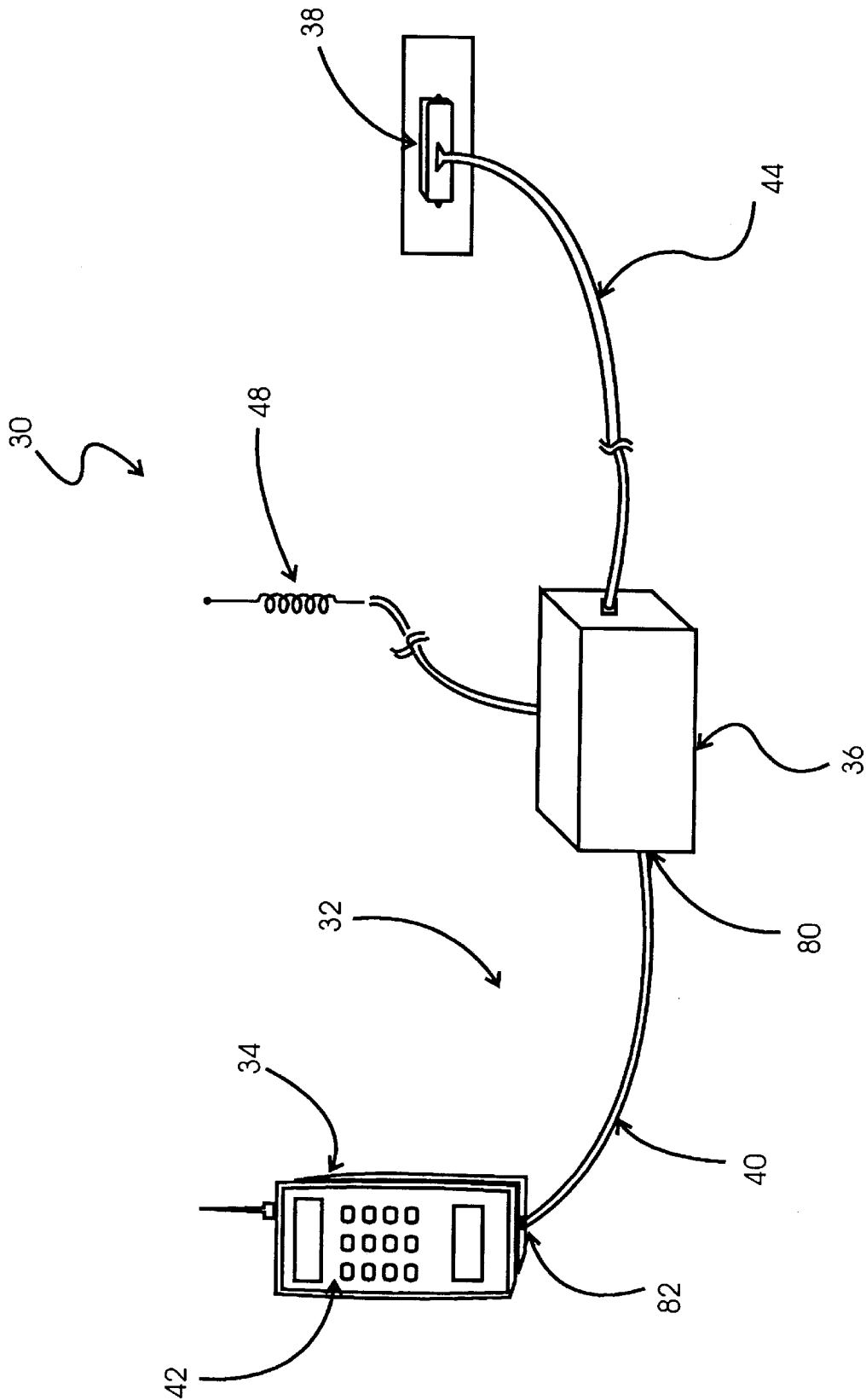


Fig. 2

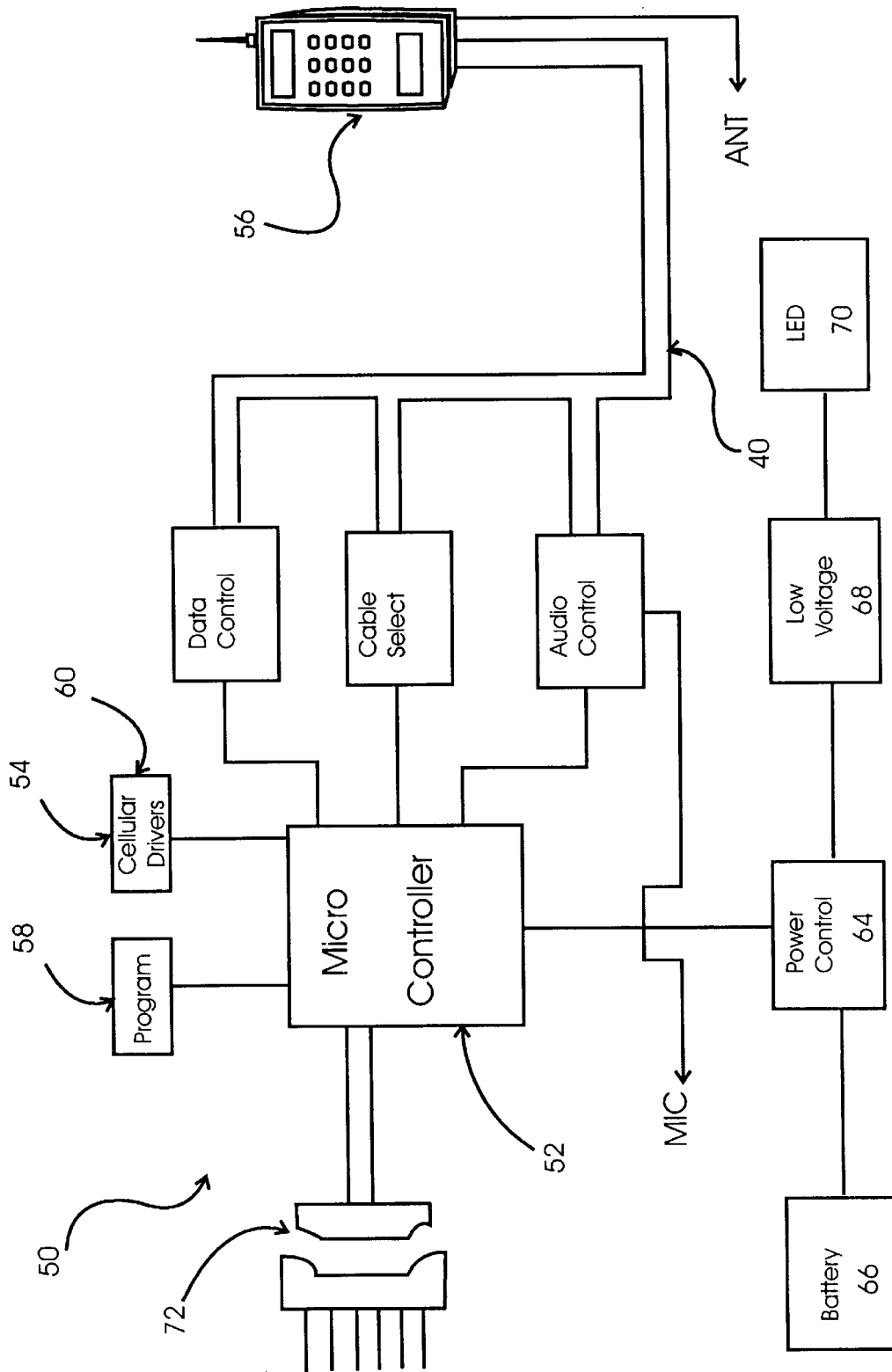


Fig. 3

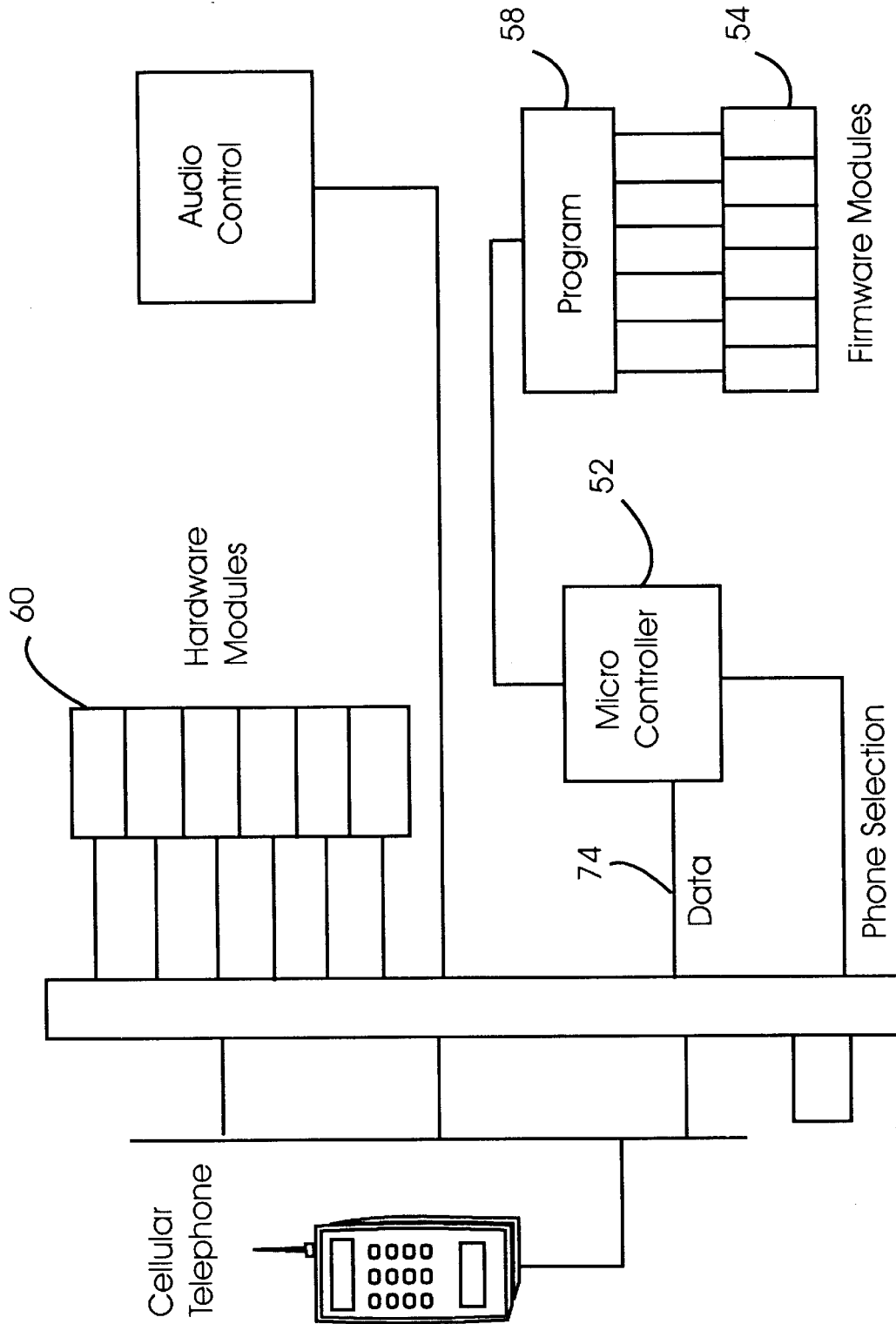


Fig. 4

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