



(12) **United States Patent**  
**Sung et al.**

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(54) **COMMUNICATION APPARATUS USING A TRANSMISSION MEDIUM AND METHOD FOR THE SAME**

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(57) **ABSTRACT**

(30) **Foreign Application Priority Data**

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Provided is communication apparatus and method using a transmission medium, in an environment where at least one transmitter and at least one receiver are connected to at least one human body which is a conductive transmission medium, in which the receiver requiring any information data requests a transmission to the transmitter or the transmitter sends a signal indicative of a transmission of required information data, and then, the transmitter provides the required information data to the receiver requiring the corresponding information data, thereby providing a communication environment without interference between the transmission means and the receiving means.

(51) **Int. Cl.**

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(52) **U.S. Cl.** ..... **370/280; 370/282; 370/286**

(58) **Field of Classification Search** ..... **370/347, 370/280, 282, 286; 455/42, 86, 108**  
See application file for complete search history.

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**18 Claims, 11 Drawing Sheets**

