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(54) **SYSTEM AND METHOD FOR SHORT RANGE WIRELESS COMMUNICATION**

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H04B 7/00 (2006.01)

(52) **U.S. Cl.** **455/41.2**; 455/41.1; 455/575.5; 455/100; 455/556.1; 455/455; 340/825.72; 340/5.64; 340/565.5; 360/99.08; 310/90; 310/51; 310/268

(58) **Field of Classification Search** 455/41.2, 455/41.1, 100, 95, 556.1, 575.5, 455; 340/5.64, 340/825.72, 565.5; 380/99.08; 360/98.07; 341/176

See application file for complete search history.

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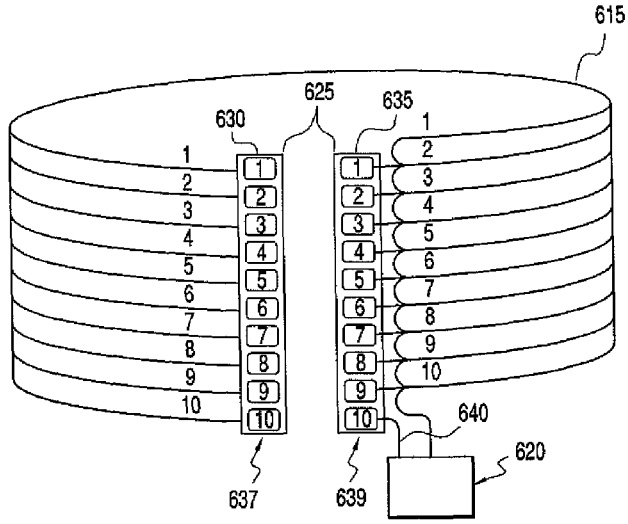
(57) **ABSTRACT**

A magnetic induction data transmission network comprising a master hub, at least one sensor node communicatively coupled to the master hub and a magnetic induction coil preferably adapted to be worn about a body part of a subject such as an individual's waist or neck. In at least one embodiment of the invention, the magnetic induction coil preferably includes a connector which serves as an intermediary between the coil and the hub to allow data communication.

15 Claims, 7 Drawing Sheets