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(54) Title: COMMUNICATION GRID REDUNDANCY PROTOCOL

(57) Abstract: A communication system having plurality of access-point sites, each having a plurality of hubs, and a first vessel having a plurality of spokes, where each spoke is paired with a hub from the plurality of hubs such that a first spoke is paired with a first hub of each of the sites, and a second spoke is paired with the second hub of each of the sites. The first spoke is an active spoke and each other spoke is a backup spoke, such that a communication pathway from first spoke to the first hub a first site is an active communication pathway, and such that the first hub of the first site is an active hub and the first site is an active site. The system may further include a communications protocol wherein each spoke maintains a communication data set relating to communications parameters, which are communicated throughout the system.



WO 2024/259324 A2