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(54) Title of the invention : METHOD AND SYSTEM FOR PROVIDING LIVING ANTENNA NETWORKS FOR SUSTAINABLE AND ADAPTIVE WIRELESS COMMUNICATION

(57) Abstract :

METHOD AND SYSTEM FOR PROVIDING LIVING ANTENNA NETWORKS FOR SUSTAINABLE AND ADAPTIVE WIRELESS COMMUNICATION ABSTRACT The present invention is a method and system for deploying living antenna networks (LANs) to support sustainable and adaptable wireless communication. By integrating natural organisms like plants or fungi with technology, LANs offer eco-friendly solutions to traditional antenna systems. Organisms serve as nodes, transmitting and receiving signals, while sensors and actuators regulate their growth and health. Machine learning algorithms optimize network efficiency, utilizing natural processes for sustainability. LANs dynamically adapt to environmental changes, ensuring reliable communication. This innovation marks a significant shift towards eco-conscious and resilient wireless infrastructure.

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