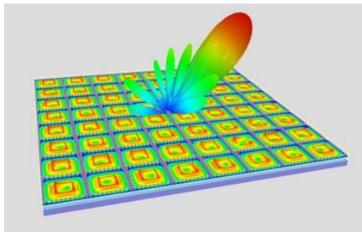


The modularity and planar aspects of phased array antennae systems have true potential to replace the grisly form of traditional dish antennas projecting from roofs and/or overhead building structure.

This invention is a method to conceal or embed phased array antennae (PAA) into surfaces exposed to sky. It provides an opportunity to antenna manufacturers to supply phased array antennae in the form of pseudo-roof tile structures that can improve both the aesthetics and modularity of such parts without compromising on radio signal transmission or reception quality. This approach would largely reduce costs of site acquisition and associated maintenance costs.



The figure above shows an artistic impression on the concept of "Roof tile with concealed phased array antenna" for demonstration purposes.

For further information regarding this Technology please contact:

Office of Research Translation

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Roof Tile with Concealed Phased Array Antennas

Competitive Advantages

- Replaces traditional oddappearing single "dish" system on building structures
- Maintains aesthetics of building structures
- Utilizes redundant roof-top spaces
- Modular installation
- Eco-friendly, non-hazardous and health-compliant system

Commercial Applications

- Phased-array transceivers as concealed roof-tiles
- Customizable and scalable transceivers in different structural shapes (other than roof-tiles) that can be fitted on utility poles, street lamps, window facades, balconies, etc.

IP Status

Licenses available

Status of Development

Prototyping stage

References

STARGATE

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