

## **Technology Brief of CityU's IP**

Aesthetic Dielectric Antenna and Method of Discretely
Emitting Radiation Pattern Using Same
(IDF#270, US9,123,995B2, HK1188037A1, CN103311639B)

## Aesthetic Dielectric Antenna and Method of Discretely Emitting Radiation Pattern Using Same

CityU

- A trend of concealing antennas from the sight of people by aesthetic object
- Dielectric Resonator Antennas (DRAs) purely made of dielectric materials without conductor loss and more suitable for millimeter-wave communication







http://www.ee.cityu.edu.hk/~eekleung/research.html



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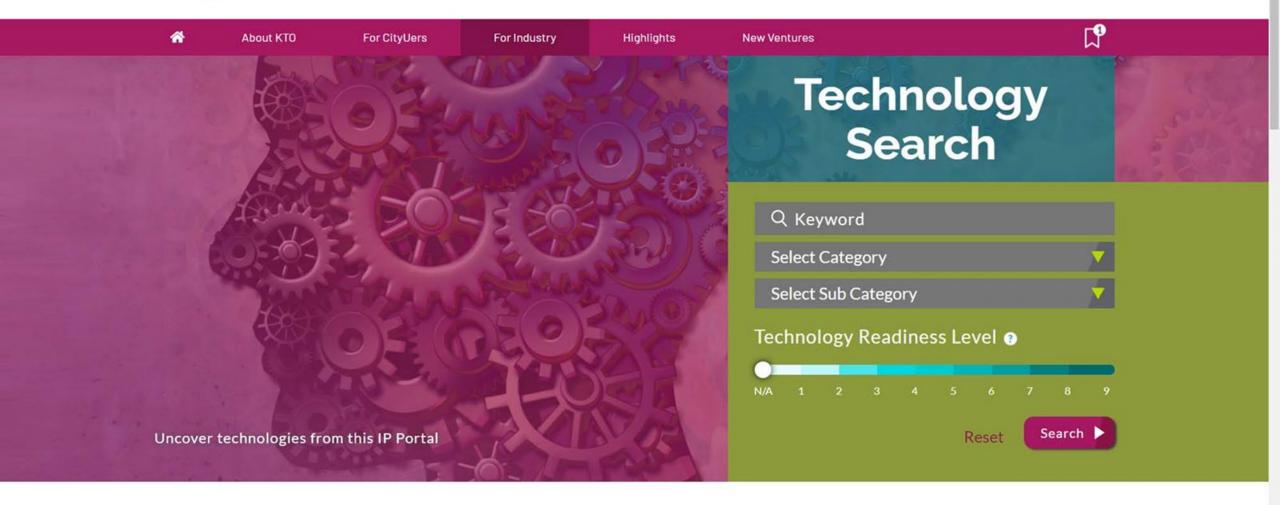
### **Advantages:**

- The DRAs can be camouflaged in an aesthetic way to minimizes the public outcry about the antenna setup.
- It can be made theoretically in different size and a flexible shape with aesthetic artworks
- It operates lesser power loss particular to millimeter-wave communication system

#### **Applications:**

- Front-hood medallion of a vehicle as an antenna
- Decoration artworks inside and outside buildings or any infra-structures





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# Thank you! Q & A