

"Method and System for Low Power Source Spectrum Sensing"

"Seeking industrial partners for co-development, production and marketing"



Preface

- *Cognitive radio is the most acknowledged network for sensing low power source spectrum.*
- *Recent reports show that the sensing application is expected to witness the fastest market growth which involves observing and updating the status of the spectrum and the movement of the licensed or primary user by periodically sensing the frequency band. This identifies the way of accessing the spectrum hole without interfering the communication of the primary users*
- *Thus, market needs a cost-effective solution for spectrum utilization. [Source: Global market insights]*
- *We are offering an innovative a cost-effective solution for spectrum utilization.*

The Technology

A method and system for low power source spectrum sensing to detect the vacant channel or spectrum hole, enabling the secondary user to communicate on that channel for efficient utilization of the vacant channel

Value Proposition

- *It provides spectrum sensing at low signal power.*
- *It is simple and cost-effective method of low spectrum sensing.*
- *It offers improved spectrum utilization.*
- *It reduces the interference of secondary user to primary user.*
- *It helps in determining vacant channel for effective spectrum utilization.*
- *It can be used in IEEE8022.22 standards to detect primary user like digital TV signal and wireless microphones.*

Industrial Utility

- *Telecommunication*
- *Defense*
- *Transportation*
- *Energy*
- *Healthcare*

Intellectual Property

- *Granted Indian Patent*

Market Size & Growth Projection

- *The global cognitive radio market size was valued at USD 5.66 billion in 2020 and is projected to reach USD 19.13 billion by 2028, growing at a CAGR of 16.4% from 2021 to 2028 [Source: Verified Market Research]*

Competition

- *Technology has competitive edge in terms of cost effectiveness in spectrum utilization for low power source*

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