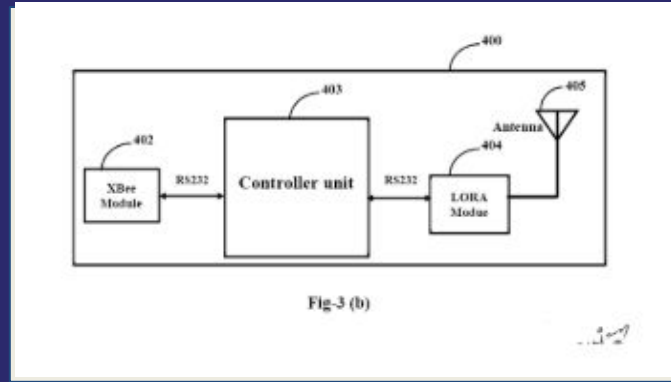


Granted IN448692

Cross layer protocol based wanet and method thereof for controlling communication of process flow parameters



NEED

Traditional pipeline monitoring systems face challenges such as vulnerability to sabotage, difficulty in fault detection, and lack of communication infrastructure.

SOLUTION

The invention presents a system and method utilizing a wireless ad-hoc network (WANET) to transmit pipeline data securely and efficiently.

INNOVATION

Introducing a method for dynamically adding new nodes to the WANET and a system architecture with short-range and long-range communication modules for data transmission.

MARKET ANALYSIS

Market: Oil and Gas Industry, Water Management

CAGR: Estimated to be in line with industry growth, potentially around 5-7%

Potential Indian Clients: Oil and gas companies, water management authorities, pipeline operators

WHY INVEST?

Wireless ad-hoc network (WANET)

Gas/Liquid hydrocarbons (LHC) transport pipeline

Cross layer protocol stack

Hierarchical structure



AT A GLANCE

- Current TRL NA
- Funded by NA
- IPC H04W
- Domain Pipeline Monitoring Technology



K R Anupama, Lucy J Gudino, Neena Goveas, S Barathy, Ranjan Kumar, Sanjeev kumar, Manoj R Meshram
Department of, Electronics and
BITS Pilani, Goa Electrical Campus

For more information, reach out to (contact person), (designation), (organization) at (email ID) and (phone number)