



## **Air pollution control system**

Technology reference #1747

### **Problem Addressed**

In general, rapid urbanization and increase in population have led to higher concentrations of air pollutants in the cities. At present, limited efforts have been made to treat the air pollutants in the ambient environment. The present application addresses the air pollution issues in the urban environment through a combination of wireless sensor networks which detects the pollution levels and triggers the operation of air pollution control system.

### **Technology**

The air pollution control system comprises an air quality monitoring device configured to measure a quality of air in an area, a wind direction monitoring device (104) configured to determine a direction of wind, an air purification device (106) configured to purify the air by removing dust particles from the air, wherein the air purification device is automatically activated based on the measured quality of the air; and a pulse jet bag house (108) to collect the dust particles from the air purification device (106) and release the purified air in the determined direction of the wind.

### **Advantages**

Provides air pollution control system with baffled cyclone separator followed by reverse pulse jet type baghouse.

### **Applications**

- The proposed air pollution control system can be used in municipal corporations, industrial clusters, mining companies, and gated communities etc.

### **Inventors**

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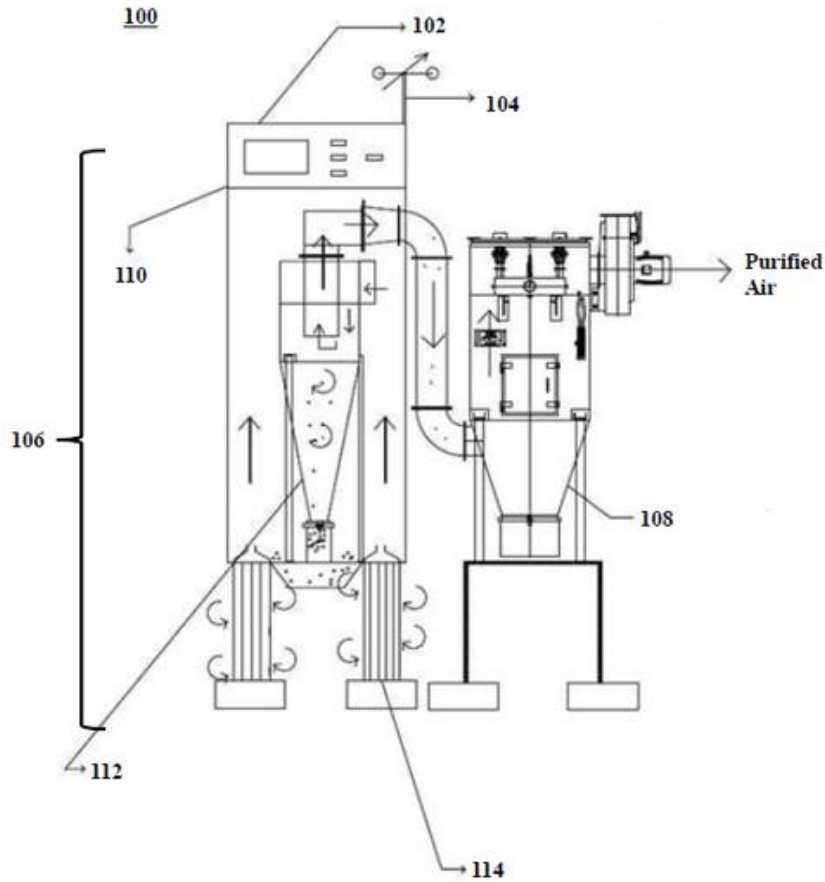
### **Domain**

Lifesciences / Medical / Food

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## Image



**IIT Madras** is seeking parties interested in licensing and commercialization of this technology.