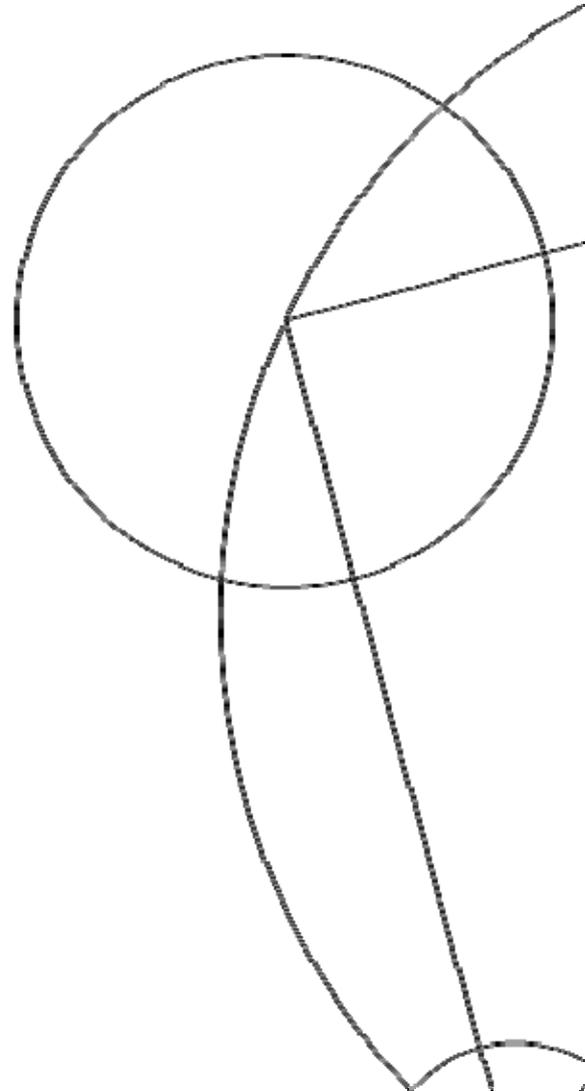




License offer

Pollution Control Using Ozone

- Inexpensive New Method for Cleaning Hot Exhaust air



The Opportunity

The University of Copenhagen is looking for a licensee for new air purification technology that removes odour and pollution from exhaust gases.

The problem

Odour and air pollution from industrial activities are not only a nuisance but also impact the environment. While various technologies have been developed to remove the pollutants from exhaust gases, they are not applicable to all ranges of pollution concentration, airflow, and temperature. There is an ever-growing demand for more cost-efficient air purification technologies. The major drawbacks of current solutions include high-energy consumption and complexity.

The Invention/technology

The present invention relates to a method for cleaning a polluted airstream using thermal breakdown products of ozone. Ozone is heated to a temperature above 47 C and the airstream is passed over a reaction surface. Ozone is decomposed and oxidizes the pollution. The reaction surface is not catalyst making it possible to use a number of materials already used in the ventilation industry and construction industry.

The requirement for heat makes the technology especially suitable for cleaning hot exhaust air. The technology may be combined with other air cleaning technologies, and is easily implemented in most industrial settings as it allows for a large degree of flexibility. Products based on the invention can be made using technology widely known in air purification industry. No special regulatory approval is required.

Key Selling points

- Simple and effective method for cleaning hot exhaust air
- Suitable small unit installations e.g. rooms, trains or other vehicles
- of proven technologies
- Can be adapted to a large variety of industrial settings

Development status

We have tested the technology for controlling the odor of reduced sulfur compounds that are typically found in industries including animal production, water treatment, and biofuel production. The system will also be effective for removing hydrocarbons.

Intellectual property rights

An EP patent application filed 16. June 2016, was updated and filed June 16 2017 as PCT/EP2017/064787 in the name of University of Copenhagen

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