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全球专利在线竞价交易市场

**LOT #169**

**Toxic Agent Detection System**



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**BID-ASK™ MARKET**



# DISTRIBUTED SENSOR FOR DETECTING TOXIC GASES AND EXPLOSIVES

## Patented Technology

The patent refers to a system for the surveillance of any area where it is necessary to detect the presence of toxic and explosive agents in the air. The technology identifies a distributed sensor of the latest generation, made with hollow optical fibre, able to detect toxic and explosive molecules of various types dispersed in the environment and consequently give the alarm.

## Strategic Option

Strategically, the technology finds use as a distributed gas sensor, capable of continuous and constant operation. Of interest is the use in public and crowded areas, where point sensors would not be effective. It is also of interest the use in the food field, in order to analyse in a distributed way an entire production chain, overcoming the limits of sample checks.

## Technical Superiority

The "e-nose" exploits the laser pulse that passes through the optical fibre that makes up the sensor, in order to give a response based on the analysis of the return wavelength compared to that emitted, which will vary depending on the gas that will be present in the space. The detected return wave will be compared with those stored into a matrix of values in the sensor, created experimentally, in which each wavelength is associated to a specific gas. The system is basically composed by a hollow optical fiber, a micro-pump, an optical source, an optical sensor, a processing unit which examines the spectrum of the optical signal detected by the sensor.

## Advantages

- First distributed sensor for gas detection
- Fewer components compared to competitors
- Low production costs
- Monitoring of many types of gases thanks to the scalable odour/wavelength matrix
- Continuous and constant monitoring of multiple areas

## Markets

Application: gas detection sensors



## QL063

### TECHNOLOGY

Distributed E-Nose for detecting toxic and explosive gases

### NOVELTY

First self-cleaning distributed sensor, able to detect a scent matrix

### IMPORTANCE

Safety and prevention in public places and broad spaces

**COUNTRIES:** USA, Europe, China, Israel, Russia and others.

**PRIORITY DATE:** 05 March 2010

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- Sold 成交
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9 ASSETS 专利数量

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LOT NUMBER 拍品编号	DATA ROOM 数据服务室	PTO 知识产权局	NICKNAME 拍品名称	REPRESENTATIVE PATENT 专利	PRIORITY DATE 优先权日期	EVENT DATE* 活动日	BID USD/RMB*	BID EXP. DATE 竞价截止日	ASK USD/RMB*	ASK EXP. DATE 要价截止日	PRICE SPREAD
<a href="#">11-INN-167-22</a>	<a href="#">11-INN-167-22</a>	Global	Semiconductor Manufacturing Test 半导体制造测试	US10088520 B1	10/27/2015	11/3/2022			\$2,500,000 ¥18,072,000	3/03/2023	
<a href="#">10-GMS-166-22</a>	<a href="#">10-GMS-166-22</a>	US, AU, CA, CN, EU, KR	Raw Sample Genotyping (RSG) 原始样本基因分型 (RSG)	US8771951	11/16/2009	10/28/2022			\$2,025,000 ¥14,409,900	2/24/2023	
<a href="#">10-DIT-165-22</a>	<a href="#">10-DIT-165-22</a>	US	Automated Securities Trading System 自动化证券交易系统	US10181156	6/13/2012	10/18/2022			\$400,000 ¥2,764,760	2/15/2023	
<a href="#">09-IME-164-22</a>		US	Energy Management System 能源管理系统	US8626344	8/21/2009	9/13/2022			\$695,000 ¥4,696,393	1/11/2023	

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