

(54) Title of the invention : GREEN SYNTHESIS APPROACH METHOD USER-FRIENDLY SENSOR FOR ENVIRONMENT AIR MONITOR

(51) International classification :G01N0027120000, C01G0041020000, G01N0033000000, B82Y0030000000, C07K0014005000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Mr. Jige Sandipan Babasaheb
 Address of Applicant :Assistant professor and Head, Department of Botany, Sant Ramdas College Ghansawangi Dist- Jalna, Maharashtra, India, Pincode: 431209 -----

2)Dr. M.A. Badhul Haq
3)Dr. Anil Kumar
4)Ms. Kehkashan Alam
5)Mrs. B.V. Febiyola
6)Dr. Narayana Thota
7)Mr. Haragouri Mishra
8)Mrs. R. Rajalakshmi
9)Dr. Mukunthan KS
10)Dr. Tamal Mondal
11)Mr. M. Kalyana Chakravarthy

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Mr. Jige Sandipan Babasaheb
 Address of Applicant :Assistant professor and Head, Department of Botany, Sant Ramdas College Ghansawangi Dist- Jalna, Maharashtra, India, Pincode: 431209 -----

2)Dr. M.A. Badhul Haq
 Address of Applicant :Assistant Professor Senior Grade & Head, Department of Marine Biology, Deputed from Faculty of Marine Sciences, Annamalai University, Parangipettai, Cuddalore District, Tamil Nadu, India, Pincode: 608502 -----

3)Dr. Anil Kumar
 Address of Applicant :Ex Research Scholar, Department of Botany, DDU Gorakhpur University, Gorakhpur, Uttar Pradesh, India, Pincode: 273009 -----

4)Ms. Kehkashan Alam
 Address of Applicant :Research Scholar, Department of Chemistry, Aligarh Muslim University, Aligarh, Uttar Pradesh, India, Pincode: 202002 -----

5)Mrs. B.V. Febiyola
 Address of Applicant :Assistant Professor, Department of Biochemistry, St.Peter's institute of Higher education and Research, Avadi, Chennai- 54, Tamilnadu. India -----

6)Dr. Narayana Thota
 Address of Applicant :DST-INSPIRE Faculty, Department of Physics, School of Sciences, National Institute of Technology – Andhra Pradesh Tadepalligudem, West Godavari (Dt.) Andhra Pradesh, India, Pincode: 534101 -----

7)Mr. Haragouri Mishra
 Address of Applicant :Assistant Professor, Department School of Pharmacy, Centurion University of Technology and Management, Odisha, India, Pincode:751009 -----

8)Mrs. R. Rajalakshmi
 Address of Applicant :Research scholar, Department of Botany, V.O. Chidambaram college, Thoothukudi, Tamil nadu, India, Pincode: 628008 -----

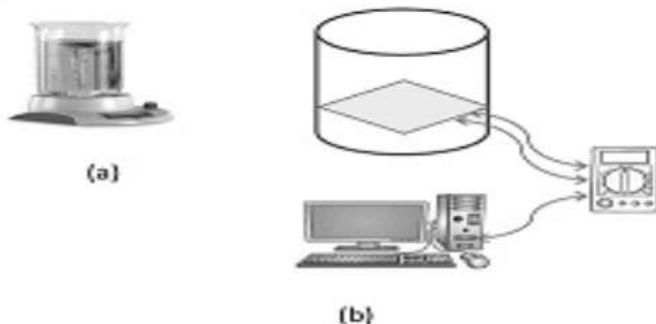
9)Dr. Mukunthan KS
 Address of Applicant :Associate professor, Department of Biotechnology, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, Karnataka, Inida, Pincode: 576104 -----

10)Dr. Tamal Mondal
 Address of Applicant :Assistant Professor, Department of Botany, Hiralal Mazumdar Memorial College for Women, Dakshineswar, Kolkata, West Bengal, India, Pincode:700035 -----

11)Mr. M. Kalyana Chakravarthy
 Address of Applicant :Senior Assistant Professor, School of Electronics Engineering, VIT-AP University, Amaravathi, Guntur Andhra Pradesh, India Pincode: 522237 -----

(57) Abstract :
 Proposed invention Prepared using the green synthesis method, tungsten trioxide and metal oxide doped printed films were produced. The printed films' structural, surface, electrical, and gas sensing characteristics are investigated using X-ray diffraction, scanning electron microscopy, transmission electron microscopy, and the Keithley system, among other techniques. After that, these films will be used to fabricate gas sensors for use in air monitors.

Diagram:



1(a) shows magnetic stirrer with metal oxide liquid. Figure 1(b) shows printed thin film for analysis gases through system.