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Application Details

APPLICATION NUMBER	122/DEL/2015
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/01/2015
APPLICANT NAME	**University of Petroleum and Energy Studies**
TITLE OF INVENTION	FABRICATION OF VERTICALLY ALIGNED COPPER NANOTUBES (CuNTs) AS A NOVEL ELECTRODE FOR ENZYMATIC BIOFUEL CELLS (EBFCs)"
FIELD OF INVENTION	GENERAL ENGINEERING
E-MAIL (As Per Record)	vsasawat@gmail.com

ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	NA
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	19/08/2016

Application Status

APPLICATION STATUS	**Application Published**

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(19) INDIA

(22) Date of filing of Application :14/01/2015

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(54) Title of the invention : FABRICATION OF VERTICALLY ALIGNED COPPER NANOTUBES (CuNTs) AS A NOVEL ELECTRODE FOR ENZYMATIC BIOFUEL CELLS (EBFCs)

(51) International classification	:B44C1/22,
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(71)**Name of Applicant :**

1)University of Petroleum and Energy Studies

Address of Applicant :Energy Acres, Bidholi, Premnager, Dehradun, Uttarakhand, India-248007 Uttarakhand India

(72)**Name of Inventor :**

1)Diwakar Kashyap

2)Venkateswaran PS

3)Dr. Jitendra Kumar Pandey

4)Dr. Sanket Goel

(57) Abstract :

Present invention relates to vertically aligned copper nanotube electrode, coated with polyaniline and immobilized with Laccase. More particularly, present invention also relate to preparation of polyaniline coated copper nanotube electrodes immobilized with laccase, said process comprises (a) fabricating of copper nanotubes on anodic aluminum oxide template (Acidic CuSO4 solution 0.24M, H2SO4 1M, additives - poly ethylene glycol-900 ppm, NaCl-150 ppm, room temperature), (b) Etching out aluminium oxide template in 0.3 M to 0.8M NaOH, preferably 0.6M NaOH solution at room temperature; (c) Deposition of Polyaniline on free standing copper nanotubes; and(d) Deposition of laccase on polyaniline coated copper nanotubes.

No. of Pages : 20 No. of Claims : 10

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Application Details

APPLICATION NUMBER	780/DEL/2015
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	21/03/2015
APPLICANT NAME	**University of Petroleum and Energy Studies**
TITLE OF INVENTION	AN OPTOFLUIDIC MICROVISCOMETER FOR MEASURING ADULTERATION IN A FLUID
FIELD OF INVENTION	PHYSICS
E-MAIL (As Per Record)	vsasawat@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	

PRIORITY DATE	NA
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(54) Title of the invention : AN OPTOFLUIDIC MICROVISCOMETER FOR MEASURING ADULTERATION IN A FLUID

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(71)**Name of Applicant :**
1)University of Petroleum and Energy Studies
Address of Applicant :Energy Acres, Bidholi, Premnager, Dehradun, Uttarakhand, India-248007 Uttarakhand India
(72)**Name of Inventor :**
1)Mr. Venkateswaran PS
2)Mr. Abhishek Sharma
3)Dr. Ajay Agarwal
4)Dr. Sanket Goel

(57) Abstract :
An optofluidic microviscometer for measuring adulteration in a fluid, comprising: an inlet port for fluid which extends into a channel which runs parallel to each other in repetitive loops before joining a Y shaped common channel, on one side; an inlet port for a high viscosity liquid which extends into a channel which runs parallel to each other in repetitive loops before joining a Y shaped common channel on other side; an outlet port at end of Y shaped channel for exiting fluid and high viscosity liquid; wherein the Y shaped channel forms a common channel for fluid and high viscosity liquid.

No. of Pages : 22 No. of Claims : 8