

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED APPROACH TO STUDY THE ISSUES ASSOCIATED WITH FUEL CELLS TO REDUCE COST AND INCREASE SUSTAINABILITY

(51) International classification :G11C0016040000, G09B0019000000, A61K0047600000, G01N0033680000, G06F0030000000

(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)Dr SURENDRA KUMAR YADAV**

Address of Applicant :ADVOCATE & SCIENTIFIC CONSULTANT, 37, OLD ROSHAN PURA EXTENSION, A-BLOCK, NAJAFGARH, NEW DELHI -110043, INDIA NEW DELHI -----

**2)Dr G CHANDRA SEKHAR**

**3)SARVESHVAR KASARLA**

**4)SUSHIL KUMAR**

**5)S.L.SREEDEVI**

**6)PRAVAT KUMAR SWAIN**

**7)Dr JYOTI PRASAD PATRA**

**8)Dr. GNANAVEL CHOKKALINGAM**

**9)Dr.S.MANTHANDI PERIANNASAMY**

**10)Dr.G.NITHYA**

**11)R PARIJATHAM**

**12)Dr.S.AMALORPAVA MARY RAJEE**

Name of Applicant : NA

Address of Applicant : NA

## (72)Name of Inventor :

**1)Dr SURENDRA KUMAR YADAV**

Address of Applicant :ADVOCATE & SCIENTIFIC CONSULTANT, 37, OLD ROSHAN PURA EXTENSION, A-BLOCK, NAJAFGARH, NEW DELHI -110043, INDIA NEW DELHI -----

**2)Dr G CHANDRA SEKHAR**

Address of Applicant :PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, GMR INSTITUTE OF TECHNOLOGY, RAJAM, ANDHRA PRADESH-532127 AND RAJAM -----

**3)SARVESHVAR KASARLA**

Address of Applicant :SARVESHVAR KASARLA, ASSISTANT PROFESSOR OF PHYSICS,INSTITUTE OF SCIENCE,NAGPUR -440001 NAGPUR -----

**4)SUSHIL KUMAR**

Address of Applicant :SCHOOL OF ENGG. & TECH., NOIDA INTERNATIONAL UNIVERSITY, GREATER NOIDA, UTTAR PRADESH-203 201 INDIA GREATER NOIDA -----

**5)S.L.SREEDEVI**

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, PERI INSTITUTE OF TECHNOLOGY, CHENNAI- 600048 CHENNAI - -----

**6)PRAVAT KUMAR SWAIN**

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF BASIC SCIENCES AND HUMANITIES, SATYASAI ENGINEERING COLLEGE (BPUT ROURKELA), BALASORE-756002, ODISHA, INDIA AND DEPARTMENT OF CHEMISTRY, BERHAMPUR DEGREE COLLEGE, AT-BERHAMPUR, P O.: RAJ BERHAMPUR, BALASORE-756058, ODISHA, INDIA BALASORE -----

**7)Dr JYOTI PRASAD PATRA**

Address of Applicant :ODISHA UNIVERSITY OF TECHNOLOGY AND RESEARCH OUTR MAHALAXMI VIHAR GHATIKIA TECHNO CAMPUS BHUBANESWAR ODISHA 751029 BHUBANESWAR -----

**8)Dr. GNANAVEL CHOKKALINGAM**

Address of Applicant :ASSISTANT PROFESSOR/MECHANICAL ENGINEERING/ VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES/ CHENNAI/600117 CHENNAI -----

**9)Dr.S.MANTHANDI PERIANNASAMY**

Address of Applicant :PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MALLA REDDY ENGINEERING COLLEGE FOR WOMEN, MAISAMMAGUDA, SECUNDERABAD, TELANGANA – 500100 SECUNDERABAD -----

**10)Dr.G.NITHYA**

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MALLA REDDY ENGINEERING COLLEGE FOR WOMEN, MAISAMMAGUDA, SECUNDERABAD, TELANGANA – 500100 SECUNDERABAD -----

**11)R PARIJATHAM**

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, MALLA REDDY ENGINEERING COLLEGE FOR WOMEN, MAISAMMAGUDA, SECUNDERABAD, TELANGANA – 500100 SECUNDERABAD -----

**12)Dr.S.AMALORPAVA MARY RAJEE**

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MALLA REDDY ENGINEERING COLLEGE FOR WOMEN, MAISAMMAGUDA, SECUNDERABAD, TELANGANA – 500100 SECUNDERABAD -----

## (57) Abstract :

Artificial Intelligence based approach to study the issues associated with Fuel cells to reduce cost and increase sustainability is the proposed invention. The invention aims at implementing algorithms of Artificial Intelligence for studying the issues associated with fuel cells. The objective of the proposed invention is to increase the sustainability of fuel cells and reduce the cost as well.

No. of Pages : 11 No. of Claims : 5