

(54) Title of the invention : INTEGRATING ELECTRICAL APPLIANCES WITH EMBEDDED INTERNET OF THINGS (IOT) HUB FOR AUTOMATIC UPGRADATION

(51) International classification :H04L0029080000, H04W0004700000, H04L0029060000, H04L0012280000, H04W0012040000

(86) International Application No :PCT//
 Filing Date :01/01/1900

(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)R.V.R & J.C COLLEGE OF ENGINEERING
 Address of Applicant :R.V.R & J.C COLLEGE OF ENGINEERING, CHOWDAVARAM, GUNTUR-522019 ANDHRA PRADESH STATE -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)DR. N. C. KOTAIAH (Professor)
 Address of Applicant :DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, R.V.R & J.C COLLEGE OF ENGINEERING, CHOWDAVARAM, GUNTUR-522019 ANDHRA PRADESH STATE Email: nellurikotaiah@gmail.com -----
2)Y. SURI BABU (Assistant Professor)
 Address of Applicant :DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, R.V.R & J.C COLLEGE OF ENGINEERING, CHOWDAVARAM, GUNTUR-522019 ANDHRA PRADESH STATE Email: ysuribabu@gmail.com -----
3)M. ANITHA (Assistant Professor)
 Address of Applicant :DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, R.V.R & J.C COLLEGE OF ENGINEERING, CHOWDAVARAM, GUNTUR-522019 ANDHRA PRADESH STATE Email: mallipeddianitha@gmail.com -----
4)B. V. VASANTHA RAO (Assistant Professor)
 Address of Applicant :DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, R.V.R & J.C COLLEGE OF ENGINEERING, CHOWDAVARAM, GUNTUR-522019 ANDHRA PRADESH STATE Email: veeravasantharao@gmail.com -----
5)P. SIVA KRISHNA (Assistant Professor)
 Address of Applicant :DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, R.V.R & J.C COLLEGE OF ENGINEERING, CHOWDAVARAM, GUNTUR-522019 ANDHRA PRADESH STATE Email: psivakrishnan@gmail.com -----
6)Y. SUMANTH (Assistant Professor)
 Address of Applicant :DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, R.V.R & J.C COLLEGE OF ENGINEERING, CHOWDAVARAM, GUNTUR-522019 ANDHRA PRADESH STATE Email: sumanth46@gmail.com -----
7)P. VENKATA MAHESH (Assistant Professor)
 Address of Applicant :DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, R.V.R & J.C COLLEGE OF ENGINEERING, CHOWDAVARAM, GUNTUR-522019 ANDHRA PRADESH STATE Email: vnktmahesh@gmail.com -----
8)DR. P. TRIPURA (Assistant Professor)
 Address of Applicant :DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, R.V.R & J.C COLLEGE OF ENGINEERING, CHOWDAVARAM, GUNTUR-522019 ANDHRA PRADESH STATE Email: tripura.pidikiti@gmail.com -----
9)GOPU VEERANJANEYULU (Assistant Professor)
 Address of Applicant :DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, R.V.R & J.C COLLEGE OF ENGINEERING, CHOWDAVARAM, GUNTUR-522019 ANDHRA PRADESH STATE Email: veeranjaneyulugopu@gmail.com -----
10)DR. D. MADHAVI (Assistant Professor)
 Address of Applicant :DEPARTMENT OF PHYSICS, R.V.R & J.C COLLEGE OF ENGINEERING, CHOWDAVARAM, GUNTUR-522019 ANDHRA PRADESH STATE Email: madhavid_ya@yahoo.co.in -----

(57) Abstract :
 ABSTRACT INTEGRATING ELECTRICAL APPLIANCES WITH EMBEDDED INTERNET OF THINGS (IOT) HUB FOR AUTOMATIC UPGRADATION The present invention provides an approach for integrating electrical appliances with embedded Internet of Things (IOT) hub for automatic upgradation. The invention comprises an IoT network, a plurality of IoT devices embedded within an electrical appliance, comprising one or more sensors, an Internet of Things (IoT) for integrating the appliance comprising a local area network (LAN) interface to couple the IoT hub to the IoT service over a network, a local wireless communication interface to communicatively couple the the one or more IoT devices, wherein responsive to an insertion into an IoT hub slot of the electrical appliance.

No. of Pages : 21 No. of Claims : 7