

(54) Title of the invention : Auto Turn off for Water Pump with Four Different Time Slots for Power Saving Applications

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(71)Name of Applicant :

1)St. Martin's Engineering College

Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. N. Ramchandra Professor, EEE Department, SMEC

Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----

2)Mr. Kambhampati Venkata Govardhan Rao Assistant Professor, EEE Department, SMEC

Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----

3)Dr. P. Santosh Kumar Patra Principal and Professor, CSE Department, SMEC

Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----

4)Ms. B. Sowkya Student, EEE Department, SMEC

Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----

5)Mr. B. Vikas Student, EEE Department, SMEC

Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----

6)Mr. B. Santosh Reddy Student, EEE Department, SMEC

Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----

7)Mr. G. Jeevanmukesh Student, EEE Department, SMEC

Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----

8)Ms. V Vaeshnavi Reddy Student, EEE Department, SMEC

Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----

9)Ms. N Hema Mythreyi Student, EEE Department, SMEC

Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----

10)Ms. K Usha Student, EEE Department, SMEC

Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----

11)Mr. K Shashank Kumar Student, EEE Department, SMEC

Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----

(57) Abstract :

The modern technologies are helpful in all aspects of our life. Due to this lots of development done in the field of agriculture we can save lot of time and resources to get more yield. The solar energy converted into electrical energy by photo voltaic cells. This energy stored in batteries during the daytime to run the water pump for agriculture and distribute the water to the farm. The invention is designed to operate the water pump at four different time slots. It prevents the difficulties of switching the pump on/off manually. Real time clock interfaced to Arduino then Arduino give command to the corresponding relay to start the load and another command to switch off the load is programmed. A matrix keypad helps to entering different time slots. There be an inbuilt real time clock (RTC) which keeps tracking the time and thus switches ON/OFF the pump accordingly. In this work, solar panel used to charge the battery a lcd display is interfaced to the to display time. We are setting the time slots from app through Wi-Fi communication.

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