

ABSTRACT

Bicycle touring activities using more and more devotees are, coupled with technological advances make sport bike as a tool primarily for the more easily recognized. But advances in technology also make this sport has a number of obstacles, one of which is the electrical problems. Electricity is much needed by professionals and their expedition because this activity requires a long time, it could be weeks, months even chronically, all depending on which areas they want to explore. At the time of the trip can be many days did not find the settlement, where survival capabilities needed and for that electricity must be available at all times. Electrical benefits very much but unfortunately until now, the author does designing, there is still no electricity generator tools made specifically for this activity. Existing products in the market is very much a deficiency of one of the example is the solar panels, the main complaint from this product that is a long process of charging. For that the author felt the need to design a device producing electricity in accordance with the system. By using a system of rotation of the wheels as the kinetic energy of the system combined with an electronic circuit to produce good products and appropriate because is based on academic and scientific disciplines by product design.

Keywords: *bicycles, Touring, Electrical, systems, Components,*