ABSTRACT

Electricity to the need to be able to give life to various electronic equipment.Mobile phone to become one of the. electronic equipment that require electricity supply to be active. Electricity today, it can be sent without going through cable media,namely by wireless technology charging,where electricity users simply add modules recipients in handphone,and equipment which enrages will be filled with the module wireless if those nearest transmitter.

The work is to be discussed realization prototypes charger wireless for mobile phones that use magnetic coupling resonance techniques where this technique can increase the distance between modules transmitter and receiver module connected users,this is because two sides use antenna that resonates with each other and drain energy from sender to recipients. More will be discussed about the influence position distance recipients to resonance frequency and tension.

Changes distance transmitter and receiver memperngaruhi resonance frequency that work on charger wireless ,would be decreased by 4/5 of frequency early. The influence of the change distance affected than magnetic field around spool,distance effective who obtained at the end is about 6 cm with maximum voltage 15,06V,who will be stabilized to 5V for supplying battery handphone. Changes the distance between recipients with transmitter affected resonance frequency,a growing number of winding will be more stable frequency resonansinya, in this last task to get a perpetually cash-strapped on a stable is 30-40 lilitan for will be able to supply a mobile phone.

Keywords: Charger Wireless, Resonant frequency.