**Attachable wheelchair automation**

**Abstract**

Wheelchairs have been used for transporting patients as well as disabled for quite a long time. Wheelchairs are driven by manual efforts. The disabled drive wheelchairs by their hands while another person is required to push patients wheelchair. Here we propose a simple attachable extension that can be attached to a wheelchair and can transform wheelchairs into E wheelchairs that require no manual efforts. Also the system makes use of batteries to drive the wheelchair and no fuel based engine which makes it eco friendly. The E wheelchair attachment is designed to automate wheelchairs and thus achieve efficient and easy transportation medium to patients as well as disabled people. The attachment uses metal rods and pipe arrangement designed to be attached to a wheelchair front rods and thus clamp on the front wheelchair rods. We then use a ball bearing integrated handle fabricated with efficient support in order to achieve directional movement. We now use a chain based arrangement that connects motor to the wheel arrangement in order to drive the attachment. Our system uses batteries to power the motor and a switching arrangement in order to switch on and off the motor and achieve desired movement.