## CLAIMS

What is claimed is:

CLAIM 1. A device comprising:

a joystick operably connected to a communication unit, the communication unit operably connected to a motor; said motor comprising an axle connected to a rotor;

a retractable friction roller comprising a centerless concave rim housing configured to provide a high friction surface facing a wheel of a manual wheelchair; wherein said roller is mounted on the axle and placed in contact with the wheel of the manual wheelchair;

an engagement unit attached to the wheelchair to detachably attach the retractable friction roller and the wheel; and

a power source operably connected to the motor and the joystick.

CLAIM 2. The device according to claim 1 further comprising a second motor operably connected to the communication unit and the power source.

CLAIM 3. The second motor according to claim 2 comprising a second axle connected to a second rotor.

CLAIM 4. The device according to claim 3 further comprising a second retractable friction roller mounted on the second axle, and said second roller placed in contact with a second wheel of the manual wheelchair.

CLAIM 5. The device according to claim 4 further comprising a second engagement unit attached to the manual wheelchair to detachably attach the second friction roller and the second wheel of the wheelchair.

CLAIM 6. The second retractable friction roller according to claim 4 comprising a second centerless concave rim housing configured to provide high friction surface facing the second wheel of the manual wheelchair.

CLAIM 7. The joystick according to claim 2 operably programmable to generate commands for the motor and the second motor.

CLAIM 8. The friction roller according to claim 1 contacts the wheel behind a seating area of the wheelchair.

CLAIM 9. The second friction roller according to claim 4 contacts the second wheel behind the seating area.

CLAIM 10. The engagement unit according to claim 1 further comprises:

> a lever operably connected to a lever mechanism unit; said lever mechanism unit operably connected to a turnbuckle; and said turnbuckle operably connected to an attachment unit.

CLAIM 11. The second engagement unit according to claim 5 further comprises:

> a second lever operably connected to a second lever mechanism unit; said second lever mechanism unit operably connected to a second turnbuckle; and said second turnbuckle operably connected to a second attachment unit.

CLAIM 12. The attachment unit according to claim 11 comprises: a spring loaded unit operably connected to the retractable friction roller; and a clamp operably connected to the spring loaded unit.

CLAIM 13. The second attachment unit according to claim 12 comprises: a second operably connected to the second retractable friction roller; and a second clamp operably connected to the spring loaded unit.

CLAIM 14. A method for converting a manual wheelchair to an electronic wheelchair comprising a step of using a device comprising:

> a joystick operably connected to a communication unit, said communication unit operably connected to a motor; said motor comprising an axle connected to a rotor;

a retractable friction roller comprising a centerless concave rim housing configured to provide a high friction surface facing a wheel of a manual wheelchair; wherein said roller is mounted on the axle, and placed in contact with the wheel of the manual wheelchair;

an engagement unit attached to the wheelchair to detachably attach the friction roller and the wheel; and

a power source operably connected to the motor and the joystick.