Fabrication of Self Propelled Tricycle

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Abstract-

We all have seen the wheel chair that normally the patients or the handicapped people use, it needs someone to push or the person on the chair has to apply force directly on the wheels which make him tired and strained and if the patient want to go to the table he has to get down and shift to other chair. Thus to eliminate these problems of a patient or a handicapped person we have designed a three wheeled device. This tricycle relates to a portable self- propelled device without using either electric or fluid power. In some embodiments .it also helps to take a turn too easily than the normal wheelchair. It has a tiller pulling of which makes the tricycle to move forward and backward and it's made so portable that the person using it can move independently in home and outdoor applications. Normal wheel chairs we find a paddle which is a more laborious job. In some other the person sitting on it must himself strive hard to move by rotating the wheels with his hands. Depending upon the lever pumped forward or reverse motion is obtained a modest back and forth pumping of the lever is sufficient to move the chair and occupant to easily keep up with friends another pedestrians.

Mobility of physically disabled persons is a concerning social issue nowadays. Various hand driven tricycles, wheelchairs, retrofitted vehicles etc. are normally obtainable for disabled folks as a mode of transportation. The basic wheeled vehicle could be a machine style, pedalled by disabled persons within the aspect and seat within the middle for sitting arrangement. They use only one hand to steer the handle because other hand is used to rotate the pedal. Our aim is to design and fabricate a low cost tricycle for the handicap people to be propelled by the novel link mechanism attached to the steering column converting into cranking, using the advantage of leverage, with proper balance and distribution of mass and centre of gravity to