

Power Trolley

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Abstract: *A trolley nowadays are important for transferring different items from place to place in our daily life or even in working life as per the requirement. We can see trollies in shopping mall, airport and industries for handling the goods. In the airport, passengers use trollies to transfer their luggage till the check in counters. Sometimes they face higher weight issues at the check in, making them pay the excess baggage charge or dispose of few important items thereof only. This creates an uncomfortable and awkward situation at the check in. And if the passenger is an old age or senior citizen it's really a very panic situation. Additionally, a survey based on a prepared questionnaire carried out at Muscat airport revealed the need for substantial improvements in the present trollies in terms of comfort in luggage handling, loading and unloading of the luggage and the need for weight of the luggage at the time of loading itself. Furthermore, many food and kitchen industries use trollies to receive and transfer the goods items to the store after weighing them. Additionally the trolley provides few added benefits such as charging of smart devices by using photovoltaic system technology and sliding platform for easy loading and unloading of the goods. The future work includes use of lighter aluminum alloy material along with use of solar panels for operation of the trolley.*

Keywords: DPDT Switch, low cost

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