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Design and Development of Multi Spindle Nut Remover

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Abstract: Typically, the majority of Indian cars use four or five lug nuts to secure the wheels to the vehicle. The conventional method for replacing a car's wheel involves using a lug wrench to individually loosen the locking lug nuts. Yet, it may prove to be overly tiring and take up too much time. In response, we have created a tool equipped with a planetary gear mechanism. Our project has aimed at reducing the amount of human effort required. The primary goal of this work is to create a single tool capable of opening multiple nuts simultaneously through straightforward mechanisms, making it highly practical for use in assembling and dismantling automobile wheels..

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