

Adjustable Turning Radius Steering Mechanism (Chandok's Raft Steering System)

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Abstract

This paper relates to the steering mechanism which is operated by either driver right side or left side driver in e-rickshaw which has tadpole configuration (two wheels in front and one wheel at rear. More particularly, this mechanism has rear steering system. The mechanism mainly consists of a lever, a handle, turning radius adjuster, cycle fork, pivot flanges for comfort drive. It has adjustable turning radius, in other words, one can easily change the turning radius according to the required conditions by simply just shifting & fix the steering lever to respective holes. It is possible to have zero turning radius by adjusting the lever. It has minimum turning effort as compare to Ackerman or anti Ackerman steering system. Also it is very light in weight as compare to other steering system.

Keywords:

Adjustable turning radius, steering system, e-rickshaw , light weight steering system, rear steering system, zero turning radius, too & fro steering system