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AUTOMATIC CAR PARKING

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ABSTRACT

In that input like vehicle no should be given by customer when they presenter the detail will best oredin database. When they press exit button in will recognize the vehicle number and produce bill along with the amount based on the usage. In order to overcome existing system problem new system is developed using this system any system can be easily searched with better security features .Car parking is a response to this situation and is the deployment of strategic plan and the car parking system efficiently. There are several benefits endowed by automated billing system .The benefit lies in parking of more car in save time due proper planning and reduce traffic , economical aspect as it cost efficient ,ensured safety of vehicle and the convenience of car parking .More feature are provided in this project document.

INTRODUCTION

A car parking system is a mechanical device that multiplies parking capacity inside a parking lot. Parking systems are generally powered by electric motors or hydraulic pumps that move vehicles into a storage position. There are two types of car parking systems:

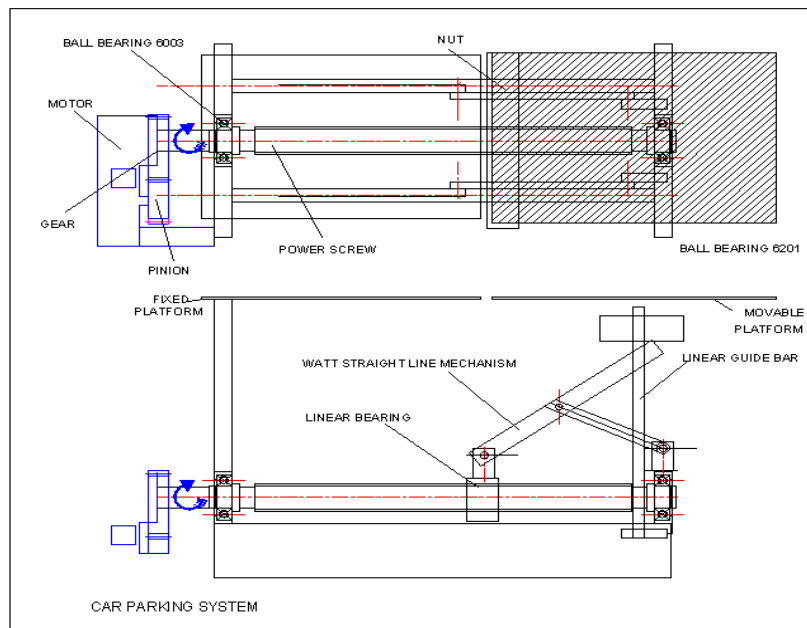
1. Traditional
2. Automated.

In the long term, automated car parking systems are likely to be more cost effective when compared to traditional parking garages. Automatic multi-storey automated car park systems are less expensive per parking slot, since they tend to require less building volume and less ground area than a conventional facility with the same capacity. Both automated car parking systems and automated parking garage systems reduce pollution cars are not running or circling around while drivers look for parking spaces.

We can use different systems in automation to prevent vehicle from theftAutomated car parking has multiple entry and exits as per the project design. There are many types of automated parking system: puzzle elevator, round type, roll park, lift park. This system can be used for parking in shopping mall and industries. This system can also be used in society forAutomated car parking systems use a similar type of technology to that used for mechanical parcel handling and document retrieval. The driver leaves the car inside an entrance area and technology parks the vehicle at a designated area. Hydraulic or mechanical car lifters raise the vehicle to another level for proper storing. The vehicle can be transported vertically (up or down) and horizontally (left and right) to a vacant parking space until the car is needed again. When the vehicle is needed, the process is reversed and the car lifts transport the vehicle back to the same area where the driver left it. In some cases, a turntable may be used to position the car so that the driver can conveniently drive away without the need to back up.



METHODOLOGY



CONSTRUCTION

Fig. shows the constructional detail of are model. It includes:-

1. Battery
2. DC Motor (12V)
3. Gear Arrangement
4. Ball Bearing
5. Power Screw
6. Linear Bearing

CONCLUSION

Now a day the cost of cars has been drops due to which the rate of purchasing cars has increased, there is a need for automatic parking system. Automatic parking system actually exists but it is not affordable by middle class. We have prepared a model which is cost effective by using mechanical linkages.

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