



Patent Search & Analysis Report (PSAR)

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Part - I : PATENT SEARCH TECHNIQUE USED

Patent Search Database Used : Google Patents
Keywords Used for Search : ultrasonic distance
measurement, comparator, positioning
Search String Used : positioning an object using ultrasonic sensor
Number of Results/Hits getting : 3

Part - II : BASIC DATA OF PATENTED INVENTION/BIBLIOGRAPHIC DATA

Category/Field of Invention : ELECTRONICS & COMM
Invention is Related to/Class of Invention : Positioning an object using ultrasonic waves
Title of Invention : Distance measurement method and device using
ultrasonic waves
Patent No. : WO 2005083463 A1
Application No. : PCT/KR2005/000165
Date of Filing/Application : 18/01/2005
Priority Date : 19/01/2004
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First Filled Country : United States
Also Published as

Country	Patent No

Applicant for Patent is : College



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- INVENTOR DETAIL

Name of Inventor	Address/City/Country of Inventor
Heui Tay An	Western Ontorio
Dong Hwal Lee	Western ontorio

- APPLICANT/ASSIGNEE DETAIL

Name of Applicant/Assignee	Address/City/Country of Applicant
Heui Tay An	Western Ontorio
Dong Hwal Lee	Western Ontorio



GTU - Prior Art Search

Part - III : TECHNICAL PART OF PATENTED INVENTION

Limitation of Prior Technology/Art :

Prior inventions was able to measure the distance but was not able to filter out the distances which were not required.

Specific Problem Solved/Objective of Invention :

The solution given by this patent was able to filter out the distance which were not required.

Brief about Invention :

The present invention relates to a method of and an apparatus for measuring a distance using an ultrasonic wave. More specifically, the invention relates to such method and apparatus, in which an ultrasonic signal is transmitted and detected to measure a distance, thereby applying it to various range finder, a lateral positioning device, a factory automation, a mobile robot or a pseudo satellite.

Key Learning Points :

How to filter out high frequency components in distance measuring using ultrasonic sensor.

Summary of Invention :

Measurement of the distance with a high accuracy of filtering the undesirable distances using ultrasonic sensor.

Number of Claims : 5

Patent Status : Published Application

How much this invention is related with your IDP/UDP? : 71 to 90%

Do you have any idea to do anything around the said invention to improve it? :

The patent describes a very vast and a detailed description of the distance measurement and filtering the high frequency components with a high accuracy, so i don't think as of now i would try to add something to this patent.