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Patent Search & Analysis Report (PSAR)

Team Id : 2153

Name : SALLA VATSAL HITESH

Part - I: PATENT SEARCH TECHNIQUE USED

Patent Search Database Used : Google Patents

Keywords Used for Search: Air ,Music,InstrumentSearch String Used: Air musical intrument

Number of Results/Hits getting : 4

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

Category/Field of Invention : ELECTRONICS & COMM

Invention is Related to/Class of Invention : Virtualizing a system

Title of Invention : Air musical instrument toy and use method thereof

: CN103405919 A

 Patent No.
 : CN 103405919 A

 Application No.
 : CN 201310189354

Date of Filing/Application: 21/05/2013Priority Date: 21/05/2013

Publication/Journal Number - (Issue No. of Journal

in which Patent is published)

Publication Date : 27/11/2013

First Filled Country :

Also Published as

Country	Patent No

Applicant for Patent is : University



- INVENTOR DETAIL

Name of Inventor	Address/City/Country of Inventor
Wang Ying	China
Nieliang Dan	China

- APPLICANT/ASSIGNEE DETAIL

Name of Applicant/Assignee	Address/City/Country of Applicant
Zhejiang University of Technology	China



Part - III: TECHNICAL PART OF PATENTED INVENTION

Limitation of Prior Technology/Art:

The infrared and ultrasonic sensors were used to measure distance, positioning and many other applications but still were not able to make up to the level of the gesture control required.

Specific Problem Solved/Objective of Invention:

To combine the principles on ultrasonic and infrared sensing and provide a different aspect of control and thus provides a large variety of toys.

Brief about Invention:

With the development of society, the species has a wide variety of toys, musical instruments, toys category also gradually spread. However, existing instruments toys, due to cost constraints, the reduction of the instrument is not high, interest reduced, and easily damaged, once damaged it is difficult to fix.

The present invention relates to a musical toy, in particular, refers to a musical toy using air instead of infrared rays and methods of use of the strings.

Key Learning Points:

Combining the principle of ultrasonic and infrared sensing.

Generating sounds corresponding to the distance and position.

Summary of Invention:

This invention was able to bring a technological development in the field of entertainment.

Number of Claims : 7

Patent Status : Published Application

How much this invention is related with your IDP/UDP? : > 91%

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

Yes. If only ultrasonic sensors would have been used instead of infrared sensors it would have been able to give high accuracy.