



## Patent Search & Analysis Report (PSAR)

**Team Id** : 2153  
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### Part - I : PATENT SEARCH TECHNIQUE USED

**Patent Search Database Used** : Google Patents  
**Keywords Used for Search** : Virtual,music,guitar  
**Search String Used** : virtual music system  
**Number of Results/Hits getting** : 9

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

**Category/Field of Invention** : ELECTRONICS & COMM  
**Invention is Related to/Class of Invention** : Music  
**Title of Invention** : Virtual music system  
**Patent No.** : US5393926 A  
**Application No.** : US 08/073,128  
**Date of Filing/Application** : 07/06/1993  
**Priority Date** : 07/06/1993  
**Publication/Journal Number - (Issue No. of Journal in which Patent is published)** : US5393926 A  
**Publication Date** : 28/02/1995  
**First Filled Country** :  
**Also Published as**

Country	Patent No

**Applicant for Patent is** : Company



# GTU - Prior Art Search

## - INVENTOR DETAIL

<b>Name of Inventor</b>	<b>Address/City/Country of Inventor</b>
Charles L Johnson	United states

## - APPLICANT/ASSIGNEE DETAIL

<b>Name of Applicant/Assignee</b>	<b>Address/City/Country of Applicant</b>
Ahead Inc	United states



## Part - III : TECHNICAL PART OF PATENTED INVENTION

### Limitation of Prior Technology/Art :

Past physical systems were never thought off to be virtual

### Specific Problem Solved/Objective of Invention :

To virtualize the existing system

### Brief about Invention :

A virtual musical instrument comprising: a multi-element actuator which generates a plurality of signals in response to being played by a user; an audio synthesizer which generates audio tones in response to control signals; a memory storing a musical score for said multi-element actuator, said stored musical score comprising a sequence of lead notes and an associated sequence of harmony note arrays, each harmony note array of said sequence corresponding to a different one of said lead notes and containing zero, one or more harmony notes;

### Key Learning Points :

How to virtualize a system

### Summary of Invention :

In general, in one aspect, the invention features a virtual musical instrument including a multi-element actuator which generates a plurality of signals in response to being played by a user; an audio synthesizer which generates audio tones in response to control signals; a memory storing a musical score for the multi-element actuator; and a digital processor receiving the plurality of signals from the multi-element actuator and generating a first set of control signals therefrom

**Number of Claims** : 16

**Patent Status** : Granted Patent

**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? :

No i don't think there's any need to improvise