



## 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** : musical instrument,string,stringed mucial instrument  
**Search String Used** : -  
**Number of Results/Hits getting** : 6

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

**Category/Field of Invention** : ELECTRONICS ENGINE  
**Invention is Related to/Class of Invention** : Music  
**Title of Invention** : Player technique control system for a stringed instrument and method of playing the instrumen  
**Patent No.** : US 7667131 B2  
**Application No.** : US 10/554,480  
**Date of Filing/Application** : 08/06/2004  
**Priority Date** : 09/06/2003  
**Publication/Journal Number - (Issue No. of Journal in which Patent is published)** : WO2004/018072  
**Publication Date** : 23/02/2010  
**First Filled Country** :  
**Also Published as**

Country	Patent No

**Applicant for Patent is** : Individual



# GTU - Prior Art Search

## - INVENTOR DETAIL

<b>Name of Inventor</b>	<b>Address/City/Country of Inventor</b>
Ierymenko Paul F	Raleigh, NC,US

## - APPLICANT/ASSIGNEE DETAIL

<b>Name of Applicant/Assignee</b>	<b>Address/City/Country of Applicant</b>
Ierymenko Paul F	Raleigh, NC



## Part - III : TECHNICAL PART OF PATENTED INVENTION

### Limitation of Prior Technology/Art :

Prior art stringed instruments have included simple electromagnetic or piezoelectric pickup both with and without signal processing effects and guitar "sustainers" that employ a feedback loop around the tensioned string to produce prolonged notes.

### Specific Problem Solved/Objective of Invention :

It is possible to achieve some selection and control of the modes of vibration. A system for controlling and modifying vibratory motion of at least one string of a stringed musical instrument

### Brief about Invention :

A system for producing music from a stringed musical instrument includes a sensor/actuating transducer arrangement coupled to each or all of one or a plurality of the tensioned strings and supervisory system that governs one or more motion controllers associated with the transducer to affect the string vibration through at least one actuator transducer coupled to the string(s) in accordance with technique commands issued by the player of the instrument.

### Key Learning Points :

Generating sound using sensor.

### Summary of Invention :

A system for modifying the vibration of at least one string (and preferably each string) of a stringed instrument in response to preselected player techniques involving selected characteristic features of the string's motion includes, at least one transducer, coupled to the string for providing a sensing output signal in accordance with the motion of the string and for effecting a change in the string motion in accordance with an actuating signal.

**Number of Claims** : 50

**Patent Status** : Published Application

**How much this invention is related with your IDP/UDP?** : Other

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

We are just using the basic idea of invention.