



Patent Search & Analysis Report (PSAR)

Team Id : 2153
Name : MALAVIYA MIHIR NILESHKUMAR

Part - I : PATENT SEARCH TECHNIQUE USED

Patent Search Database Used : Google Patents
Keywords Used for Search : musicalinstrument,stringed musical
insrument,sensor
Search String Used : -
Number of Results/Hits getting : 7

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 : Stringed instrument with active string termination
motion contro
Patent No. : US 8450593 B2
Application No. : US 12/772,440
Date of Filing/Application : 03/05/2010
Priority Date : 09/06/2003
**Publication/Journal Number - (Issue No. of Journal
in which Patent is published)** :
Publication Date : 21/05/2013
First Filled Country :
Also Published as

| Country | Patent No |
|---------|-----------|
| | |

Applicant for Patent is : Individual



GTU - Prior Art Search

- INVENTOR DETAIL

| Name of Inventor | Address/City/Country of Inventor |
|-------------------------|---|
| Ierymenko Paul F | Raleigh, NC |
| Berdahl Edgar Joseph | San Francisco, CA |

- APPLICANT/ASSIGNEE DETAIL

| Name of Applicant/Assignee | Address/City/Country of Applicant |
|-----------------------------------|--|
| Ierymenko Paul F | Raleigh NC |



Part - III : TECHNICAL PART OF PATENTED INVENTION

Limitation of Prior Technology/Art :

In some embodiments according to the present invention, a system for controlling for at least one string of a musical instrument by selectively exciting or damping vibration of the string is provided. The system includes at least one transducer configured to sense a lateral vibration of the string and/or to apply an actuating force to the string. A controller is configured to determine an actuating signal for driving the actuator to apply a longitudinal actuating force to the string at a termination point of the string. The longitudinal actuating force is operable to modulate a tension of the string that increases (excites) and/or damps the lateral vibration and/or selected harmonics thereof.

Specific Problem Solved/Objective of Invention :

The present invention relates to the field of stringed musical instruments, and in particular to interfaces between players and instruments.

Brief about Invention :

A system for controlling for at least one string of a musical instrument by selectively exciting or damping vibration of the string is provided. The system includes at least one transducer configured to sense a lateral vibration of the string and/or to apply an actuating force to the string. A controller is configured to determine an actuating signal for driving the actuator to apply a longitudinal actuating force to the string at a termination point of the string. The longitudinal actuating force are operable to modulate a tension of the string that increases and/or damps the lateral vibration and/or selected harmonics thereof.

Key Learning Points :

Generation of sound

Summary of Invention :

In some embodiments according to the present invention, a system for controlling for at least one string of a musical instrument by selectively exciting or damping vibration of the string is provided. The system includes at least one transducer configured to sense a lateral vibration of the string and/or to apply an actuating force to the string. A controller is configured to determine an actuating signal for driving the actuator to apply a longitudinal actuating force to the string at a termination point of the string. The longitudinal actuating force is operable to modulate a tension of the string that increases (excites) and/or damps the lateral vibration and/or selected harmonics thereof.

Number of Claims : 7

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? :

just using the concept of this invention.