United States Patent [19]

Ford

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[45] **Aug. 26, 1975**

[54] **CORDLESS ELECTRICAL GUITAR AND AMPLIFIER SYSTEM**

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[73] Assignee: **The Raymond Lee Organization, Inc.,** New York, N.Y. ; a part interest

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[52] **U.S. Cl.** **84/1.16**

[51] **Int. Cl.²** **G10H 3/00**

[58] **Field of Search**..... 84/1.01, 1.04, 1.14–1.16, 84/DIG. 24, DIG. 30

[56] **References Cited**

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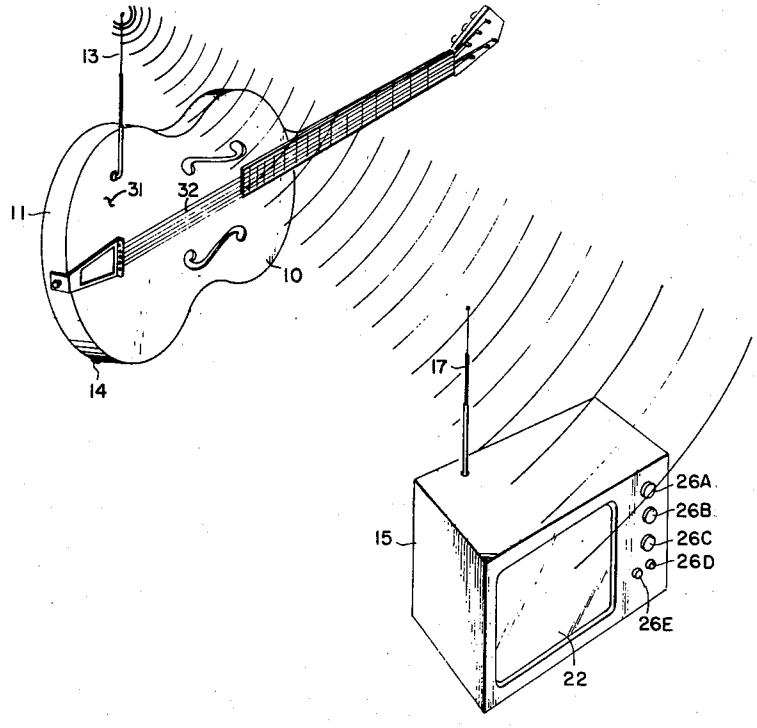
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[57] **ABSTRACT**

A cordless electrical guitar and amplifier system which eliminates the use of connecting electrical wiring between the guitar and amplifier unit. An output transducer, linked to an internal radio transmitter which is powered by batteries is contained within the guitar. A radio receiver in a remote amplifier unit receives the radio signal from the transmitter in the guitar and converts it through an attached loudspeaker to the audio signal.

1 Claim, 2 Drawing Figures



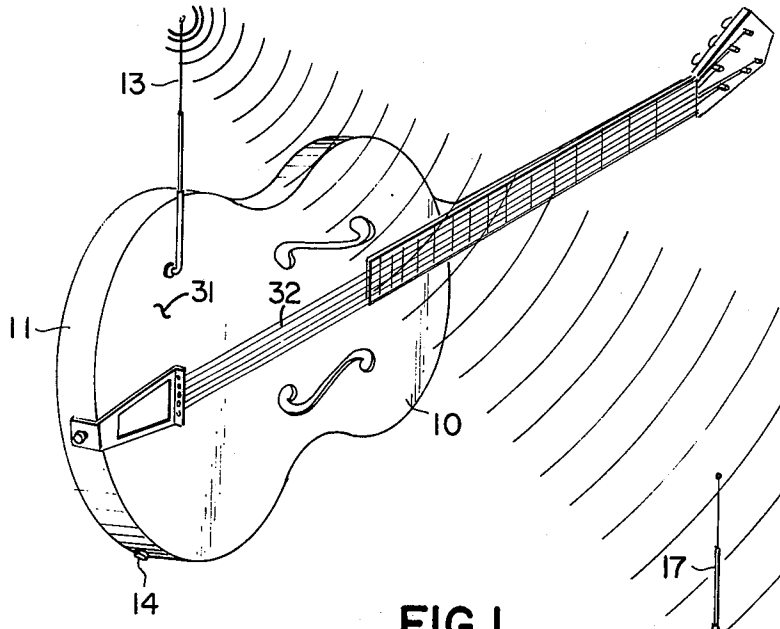
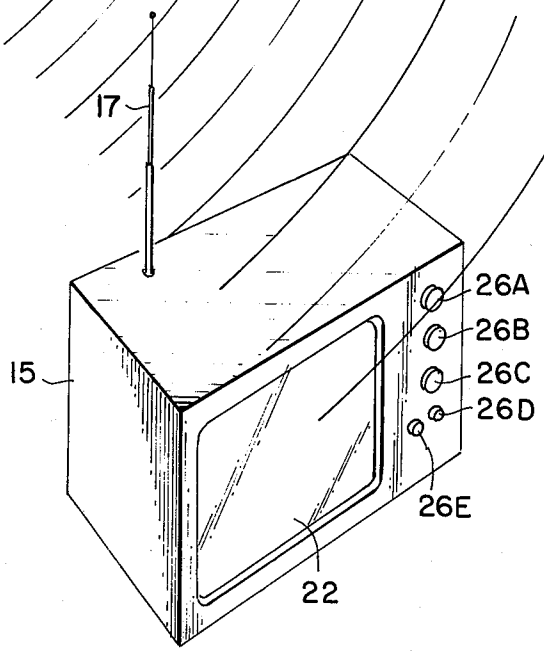

13
31
32
11
10
14

FIG. 1


17
26A
26B
26C
26D
26E
15
22

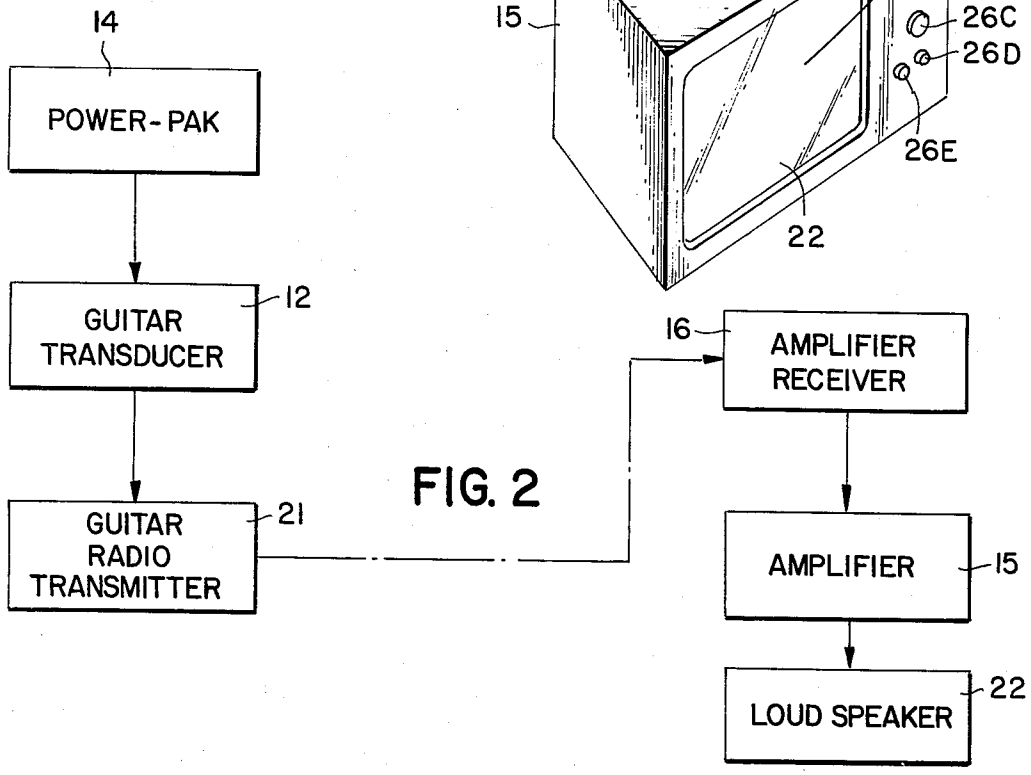

14
POWER-PAK
GUITAR TRANSDUCER
12
GUITAR RADIO TRANSMITTER
21
16
AMPLIFIER RECEIVER
AMPLIFIER
15
LOUD SPEAKER
22

FIG. 2

CORDLESS ELECTRICAL GUITAR AND AMPLIFIER SYSTEM

SUMMARY OF THE INVENTION

My invention relates to a cordless electrical guitar and amplifier system which eliminates the use of connecting electrical wiring between the guitar and amplifier. An output transducer connected to a battery powered radio transmitter is contained within the guitar. A remote radio receiver and amplifier converts the radio signal to an audio output through an attached loudspeaker.

BRIEF DESCRIPTION OF THE DRAWING

The objects and features of the invention may be understood with reference to the following detailed description of an illustrative embodiment of the invention, taken together with the accompanying drawings in which:

FIG. 1 illustrates a perspective view of the invention; and

FIG. 2 illustrates a schematic diagram of the invention.

DESCRIPTION OF THE PREFERRED EMBODIMENT

Turning now descriptively to the drawings, in which similar reference characters denote similar elements throughout the several views, FIGS. 1 and 2 show the cordless electrical guitar and amplifier system **10.** The guitar **11** contains an output transducer **12** powered by a power pack **14** containing an internal battery. The output transducer **12** attached to the guitar is connected to a radio transmitter **21** in the guitar linked to attached antenna **13.** The remote located amplifier unit **15** contains a radio receiver **16** joined to a receiving antenna **17.** The antenna **13** is mounted on the guitar **11** to the face **31** of the guitar **11** and oriented to extend in a plane parallel to the plane of guitar face **31** away from and perpendicular to the axes of the guitar strings **32.** This arrangement reduces distortion caused by the strings intercepting and reflecting the electrical waves transmitted by the antenna.

The amplifier radio receiver **16** is linked to a conventional audio amplifier **15** which powers the attached loudspeaker **22** to broadcast the amplified guitar sounds. The amplifier unit **15** is fitted with conventional volume, tone switching and other controls, **26A, 26B, 26C, 26D** and **26E** respectively and may be powered by internal batteries or by the household electrical service.

Since obvious changes may be made in the specific embodiment of the invention described herein, such modifications being within the spirit and scope of the invention claimed, it is indicated that all matter contained herein is intended as illustrative and not as limiting in scope.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent of the United States is:

1. An electrical guitar equipped with a radio transmitter system which transmits the sounds of the guitar to a remote radio and amplifier unit comprising

a guitar fitted with a transducer connected to an amplifier of a radio transmitter located within the guitar, with the output of the radio transmitter led to an antenna mounted to the face of the guitar and oriented to extend parallel to said guitar face in a direction away from and generally perpendicular to the strings of the guitar.

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