

Title (en)  
MUSICAL NOTE DETECTING SYSTEM FOR A STRING INSTRUMENT

Title (de)  
NOTENDETEKTIONSSYSTEM FÜR EIN SAITENINSTRUMENT

Title (fr)  
SYSTÈME DE DÉTECTION DE NOTES MUSICALES POUR UN INSTRUMENT À CORDES

Publication  
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Application  
**EP 15765489 A 20150309**

Priority  
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Abstract (en)  
[origin: WO2015140783A1] A detection system is provided for detecting a musical note played on a string instrument having a fretboard provided with a plurality of conductive frets and conductive strings. The system includes at least one conductor coupled to each of the frets; an inverter having a first terminal coupled to the conductor and a second terminal coupled to the conductive string, the inverter being configured to logically invert a signal transmitted therethrough, such that when the conductive string is pressed against one of the frets allowing thereby for a signal to be transmitted therethrough, the signal is sequentially inverted between two logical states at a frequency being dependent on the distance between the inverter and the fret; a frequency detector configured to measure the frequency; and a controller configured for determining the location of the fret along the fretboard in accordance with the frequency, and to thereby detect the musical note.

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