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To the evaluators,

PCT/MY2016/0500091 – A colour coded music notation system.
PCT/MY2016/0500092 – Display for musical instrument using audio visual notation system.
(PCT- Paris Cooperation Treaty)

The above applications registered in Malaysia on 3rd March 2016 have been re-examined by PCT International Preliminary Examination Authority which has approved its novelty, inventiveness and industrial applicability for all claims of both patents, in their written opinion dated 10th November 2017 [PCT 91](#) & [PCT 92](#)

The unchanged descriptions and especially the drawings that substantiated the reworded patent claims positively, seeks to provide an opportunity to play proper music, almost instantly with a direct form of audio-visual notation with displays connected to musical instruments that can be technically precise with research and development when put together, with the best options from a highly developed field, where nothing seems impossible, for a new age standard.

Research into this unique AV software using moving note waves that can digitally and graphically register all the inherent values for music notation would ride on the technologies past and present in handphones and interactive video games.

Keyboards or screenboards that use a display with computer coded keys is a most practical reality, with the electronic keyboards extended sounds to be appropriately sensed into computer module, with traditional musical instruments such as a violin recreated, with a display on the fingerboard having a variety of sensors to know where, when and how to play with audio-visual signals instinctively.

Bowing instruments are to set the stage, with fretted and other instruments, to eventually used an established system, through research and development with the features described in the patent request already published by PCT after 18 months, of the priority date i.e. 3rd March 2016 [Original Filing 91](#) and [Original Filing 92](#)

This project is to draw interest to a market that could expand many fold, where costs can be expected to be recovered. An amateur conceptual [DEMO](#) video to stir discussion, depicting the elementary movements of the notewave on variable settings would show the software potential to inspire a prototype of the hardware with the understanding of the basic issues and choices in manufacture, as posed below:-

1. What is the most appropriate sensor for string conductivity on a curved fixed-flexi screen or a flat display, below a hard composite glass e.g. magnetic, static current, string as per stylus?

Note – Each string (rather than finger) contact to the pixel below, triggers registration of the lowest-point/highest-pitch location on the fingerboard display, unto a computer module, only when ‘audible’ frequency registers vibration on each pickup, indicating the touch-force by the ‘volume’ of the *strike*, to be modulated into harmonic output. Thus making the play location registration academic to the real-time sound output.

2. Can a curved or flat display be ideally custom printed with graded pixel sizes for the fingerboard arm; OR can uniformly sized pixels be cut/fused to bowing instrument dimensions without breaking circuit.
3. The practicality of a hard composite glass, cut from extrusion pipes to the curvature of bowing instrument dimensions for a firm, well aligned, easy fix over a curved display to slide into the side rails to be assessed with 1 and 2.

For a quick grasp of the concept, Please download [DEMO](#) for understanding the significance quicker, followed by scanning the drawings (See Attachment 3 below),and reading the approved claims ([PCT 91](#) & [PCT 92](#)) before browsing for clarity from the Original filing in Malaysia ([Original Filing 91](#) & [Original Filing 92](#))

Thank you,
Yours sincerely,

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ATTACHMENT 1 – PCT REPORT (Dated 10 th November 2017)	- PCT 91 & PCT 92
ATTACHMENT 2 – CONCEPTUAL DEMO VIDEO	- DEMO
ATTACHMENT 3 – Enlarged drawings of both patents	- Notation (1-6) & Notation (7-11) 91 Display (1-7) & Display (8-13) 92
ATTACHMENT 4 – Malaysian Filing (Dated 29 th December 2016)	- Original Filing 91 & Original Filing 92