

# KENTONGAN PIANO WITH DIATONIC VIBRATION FREQUENCY TONE FOR PLAYING INTERNATIONAL MUSIC-TRADITION OF KNOCK DOWN SYSTEM

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## ABSTRACT

This research is research into the development of bamboo management into quasi-piano instruments. Bamboo gongs are usually toneless, in this study the gongs were made to be pitched. The piano is an instrument based on the technique of strings being hit with small hammers made of wood in a resonator box. A pitched kentongan piano works in the same way as a forte piano, namely pitched bamboo which has the same vibration frequency of notes as a piano and is then given a resonator. Bamboo tubes replace the strings, then the bamboo tubes are given a resonator. Piano-like keys are made to act as pushers that hit the bells. The method in this research uses Research and Development, by carrying out design, validating the design, making musical instruments based on the design, validating musical instruments, and continuing with a pitched kentongan piano performance. The target of this R&D is intellectual property rights for industrial designs, international articles for pitched kentongan pianos, and kentongan piano products.

Kata Kunci: *piano, pitch kentongan, vibration frequencies, resonators*