

## Folded Horn Acoustic Guitar YouTube Video Plan

### Materials:

- 1) FHAG #1 - Unassembled Guitar #2 and #3 - Taylor Guitar - Sound Board - Neck - Wood Before Machining.
- 2) Graphics Display: Frequency Output (not FR, as this is a producer and reproducer), Patent, Testimonials, Folded Horns in Piano Invention, CNC pictures, dB levels, Recording levels in MixPad (both guitars) and Feedback Testing.

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### Method:

- 1) Introduce myself and Guitar. Play the guitar. Play the Taylor.
- 2) Backwards Mellissa, Jazz Chords.
- 3) Explain the  $\frac{1}{4}$  wavelength rule: speed of sound/frequency = wavelength = 16 feet (for a guitar lowest frequency of 82 Hz). Divide this by 4, (proven in physics). So you only need to have a folded horn that is four feet long. Mine is five feet long, and I have two of them – stereo!
- 4) Folded horns make small speakers sound like big speakers, are efficient, improve tone and increase power.
- 5) External amp can be internal, all sound comes from inside the guitar, you can feel it in your body as you play and hold the guitar.
- 6) Show all other materials.
- 7) Show Frequency Output, Patent, Testimonials, Folded Horns in Piano Invention, CNC pictures, dB levels, Recording levels in MixPad (both guitars) and Feedback Testing.

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### Method (continued):

- 7) Some of the most beautiful sounds are inside the guitar. We need to bring them out!
- 8) The acoustic guitar can be drowned out by a violin, a piano, any brass instrument, drums and a banjo.
- 9) The acoustic guitar is a beautiful instrument, but it lacks POWER!
- 10) When we put more powerful sound back into the acoustic guitar, WOW! It's true potential is reached!
- 11) Klipsch, Bose, Weltersys, Danley. Acoustic Body is Everything. Electric Body Not So Much.
- 12) Different People Playing and Building (Luthiers).
- 13) Blackbird, Open D Jam, My Open D Fingerpicking, A minor Jazz, Sugar Mountain, Blues Riff, Solos...Hammer On E jam. Little Martha in Open E.
- 14) Thank you, contact info email: [joek@katzengininnovation.com](mailto:joek@katzengininnovation.com)
- 15) Website: katzenberger-engineering.com (registered but not yet accessible).