



Katzenberger Engineering and Innovations

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A Closer Look Behind the Folded Horn Acoustic Guitar

This brief video presents not just the technical advances behind my invention, but the passion and vision

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My vision:

It all started with a simple question: "How can I give the acoustic guitar 4X the power, and actually improve the beautiful tone?" That's where the Folded Horn Acoustic Guitar came into play, and since then, it's been a journey of turning innovative ideas into patents.

As an engineer and innovator, I'm all about making things work better. The patents showcased here are the result of that drive. From the groundbreaking Folded Horn Acoustic Guitar (originating from the folded horns in high end speaker systems), to three additional patent ideas, each creation is a deliberate stride in the quest to redefine the possibilities of sound.

Folded Horn Acoustic Guitar - U.S. Patent # 10,177,172 - Granted

Floating Soundboard Acoustic Guitar - U.S. Patent # 11,232,770 - Granted

Acoustic Waveguide Guitar - U.S. Application # 17,735,818 - Published, Not Yet Granted

Acoustic Waveguide Grand Piano - U.S. Application # 18,379,092 - First Inventor To File



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Joseph Katzenberger - Engineer - Inventor - Guitar Player - Luthier (apprentice)

Social Links

[Youtube](#)

[DIY Forum](#)

[Link Three](#)

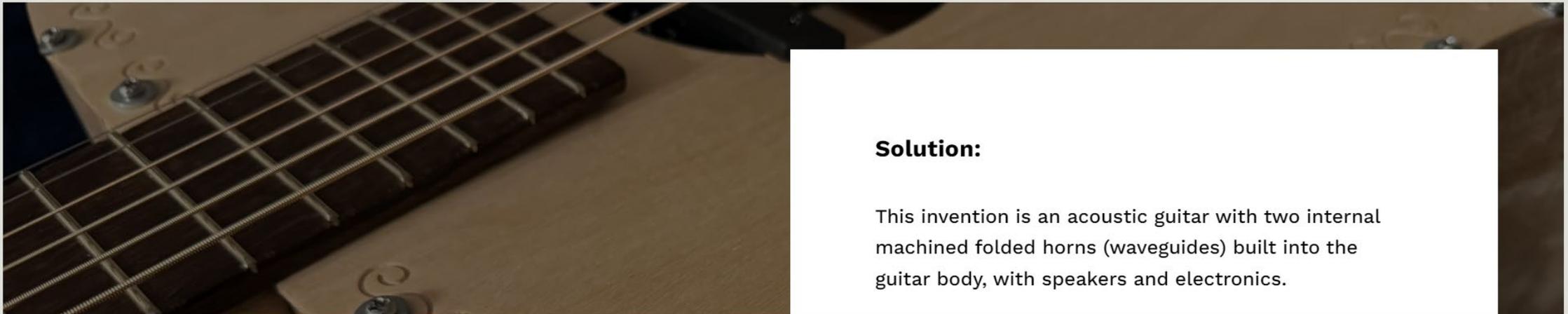
Website Preliminary for diyAudio



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Problem:

Why is an acoustic guitar not loud enough when played with other acoustic instruments? How can it be made louder based on the beautiful sound of a wood instrument, not just played through an amplifier?



Solution:

This invention is an acoustic guitar with two internal machined folded horns (waveguides) built into the guitar body, with speakers and electronics.



**Folded Horn Acoustic Guitar U.S.
Patent #10,777,172**

Testimonials

"The patent is notably well written. Much of it is a re-cap of the guitar's weaknesses and a teaching of new fabrication technology for complex but natural shapes."

Direct Quote From Social Media

"This guitar is sick!"

Direct quote from Social Media.

"Done right, I would think this to be a revolutionary instrument."

Direct Quote From Social Media

What a remarkable, beautiful bit of work you've put into this! And CNC skills to the moon! Wow. Can you see how green I am?

Direct Quote From Social Media

"Can't wait to hear this thing, and please have someone with a slide rip a riff, love the concept!"

Direct Quote From Social Media

I HATE !!!! the fact I did not think of this, I play guitar and would love to hear this, it's a great idea. So very fricken cool !!!!

Direct Quote From Social Media

PRAISE FROM SOCIAL MEDIA (INCLUDING diyAudio.com above and below)

Wild idea, flying close to the sun. Unbelievable work. You need to flaunt this. It will blow peoples minds! Jaw-dropping just to see part of it. •