

## Folded Horn Acoustic Guitar Patent # 17,177,172



Two necks turned out great, straight and flat,  
some flaws that need to be repaired.

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Dovetail turned out great.



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Neck on the CNC machine,  
being cut from Hard Maple.



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I was pleasantly surprised by this Bose Waveguide CD player. It is only 14" across, and does indeed fill a 15' x 15' room with sound, bass was pretty good. Speakers are almost exactly the same physical size as mine, and dB was also similar, encouraging.

My waveguides are much longer. The Bose waveguide is 27" long, one only. I have two five foot long waveguides, and you can hear the richer bass in mine, capturing  $\frac{1}{4}$  wavelength of about 80 Hz.

# Acoustic Waveguide Guitar Patent Application

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**Acknowledgement Receipt**  
The USPTO has received your submission at **17:30:52 EST** on **03-MAY-2022**.  
\$ 830 fee paid by e-File with RAM Confirmation Number: E202253H34493975.

**eFiled Application Information**

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First Named Inventor	Joseph Katzenberger
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**Application Details**

Sequence	Submitted Files	Page Count	Document Description
1	Letter from Katzenberger Joseph Guitars Patent Drawing Sheet 1 of 5 Mar 2022.pdf	1	Drawings-only black and white line drawings

Third patent “filed” successfully last night. Took 30 minutes to file all Patent Drawings, Invention Disclosure and docs. The first time it took me probs five long nights of making mistakes and learning. Progress!