

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

The screenshot shows the USPTO EFS Registered page for a patent application. The page header includes the USPTO logo and navigation links for Trademarks, Other, and a Sign-Off button. The main content area is titled "EFS Registered" and contains a series of buttons for "Registered Offers", "Please Read Announcements", "Application Data", "Attach Documents", "Review Documents", "Calculate Fees", "Confirm & Submit", "Pay Fees", and "Receipt". Below these buttons is an "Acknowledgement Receipt" section stating that the USPTO received the submission at 17:30:52 EST on 03-MAY-2022, with a fee of \$830 paid by e-Filer and a confirmation number of E202253H34493975. The "eFiled Application Information" section provides the following details:

EFS ID	45626024
Application Number	17735010
Confirmation Number	5940
Title of Invention	Acoustic Waveguide Guitar
First Named Inventor	Joseph Katzenberger
Customer Number or Correspondence Address	161988
Filed By	Joseph J. Katzenberger
Attorney Docket Number	
Filing Date	
Receipt Date	03-MAY-2022
Application Type	Utility under 35 USC 111(a)

At the bottom, the "Application Details" section shows a table with columns for "Sequence", "Submitted Files", "Page Count", and "Document Description". One entry is visible:

Sequence	Submitted Files	Page Count	Document Description
	Letter-File_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!