

Press Release

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Art You Can Play: Guitars for the Next Generation™

<http://tulasoundguitars.com/news/prototype-patent-news/first-patent-application-published/>
<http://tulasoundguitars.com/2015/10/01/guitar-artwork-soundboard-gallery-of-20-images/>

Artwork at android-originals.com, simulated on guitars at:
theandroidsaxe.com

- Removable, carvable, tunable, acoustic artwork top, w/ enough output for quiet practicing
- Pickups that can be placed by the musician anywhere between the neck and bridge in five degrees of freedom – up and down and toward and away from the neck at the ends, and across the strings
- M*K*(K-1) possible humbucking outputs for M switched tone capacitors and K matched single-coil magnetic string pickups (typically 3 to 12 capacitors, 2 to 4 pickups for 6 to 144 possible timbre settings)
- Onboard switchable distortion with second and third harmonic control
- With a commercial neck and hardware, the body, bridge and top can be made in any garage woodworking shop with ordinary tools and materials
- Compare to a standard Fender Stratocaster®™, with a fixed body, three fixed-position single-coil pickups, and a five-way timbre switch with only 2 humbucking outputs

If you can't find your own sound, you aren't trying hard enough™

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(54) **ACOUSTIC-ELECTRIC STRINGED INSTRUMENT WITH IMPROVED BODY, ELECTRIC PICKUP PLACEMENT, PICKUP SWITCHING AND ELECTRONIC CIRCUIT**

(52) **U.S. Cl.**
CPC *G10H 3/22* (2013.01); *G10D 1/085* (2013.01); *G10H 2220/505* (2013.01); *G10H 2220/481* (2013.01)

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(57) **ABSTRACT**

An electric-acoustic stringed instrument has a removable, adjustable and acoustic artwork top with a decorative bridge and tailpiece; a mounting system for electric string vibration pickups that allows five degrees of freedom in placement and orientation of each pickup anyplace between the neck and bridge; a pickup switching system that provides $K*(K-1)/2$ series-connected and $K*(K-1)/2$ parallel-connected humbucking circuits for K matched single-coil pickups; and an on-board preamplifier and distortion circuit, running for over 100 hours on two AA cells, that provides control over second- and third-harmonic distortion. The switched pickups, and up to $M=12$ switched tone capacitors provide up to $M*K*(K-1)$ tonal options, plus a linear combination of linear, near second-harmonic and near-third harmonic signals, preamp settings, and possible additional vibration sensors in or on the acoustic top.

