3D Core for the Three Coils of William Jay Fogal's Charged Barrier Transistor

VINYASI
MAY 26, 2026

First off, I have to give credit to Ryan Hopkins and AI:

How to build the coils of my Golden Ratio circuit-simulation according to AI's assistance.

VINYASI · JULY 26, 2025

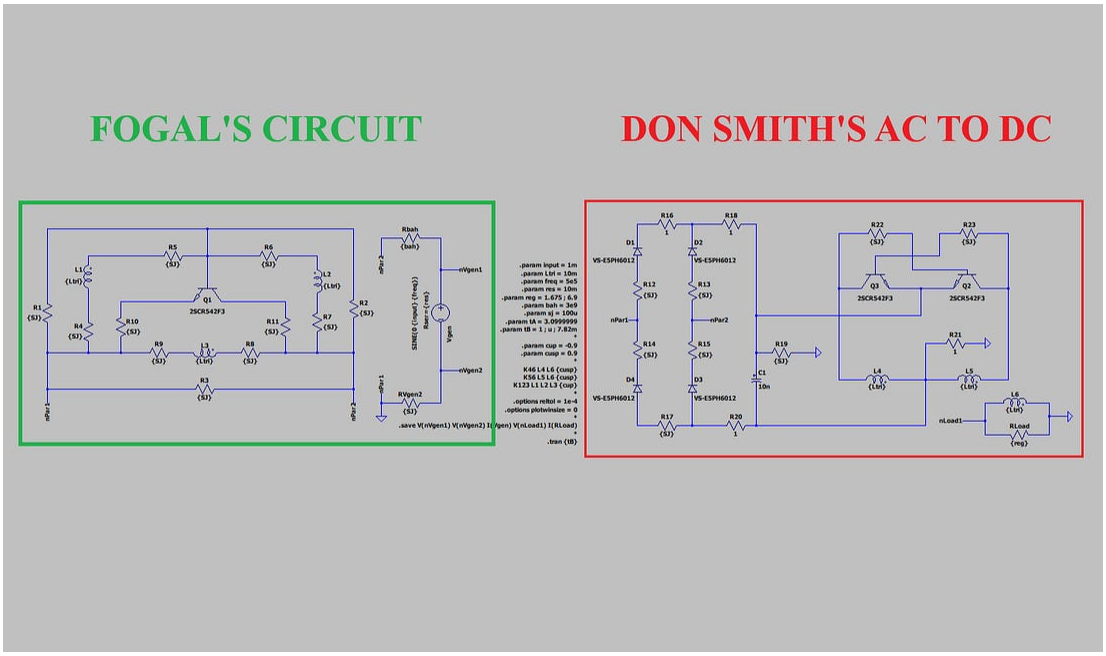
Up until now, I've tried to wing this on my own for the past 6 years without any success whatsoever. So, I got this brainstorm, “Why don’t I ask AI?”

Read full story

… for teaching me about the possibility of the orthogonal arrangement of transformer coils.

It takes a while to get used to the idea since it's not simplistically conventional. It took me a few years!

Here's the 3D print-image for a three-axle core — composed of (fabricated from) magnetizable material — upon which are wrapped three coils, L1 & L2 & L3, located on the left side of this schematic within the green rectangular block diagram, entitled: "Fogal's Circuit":

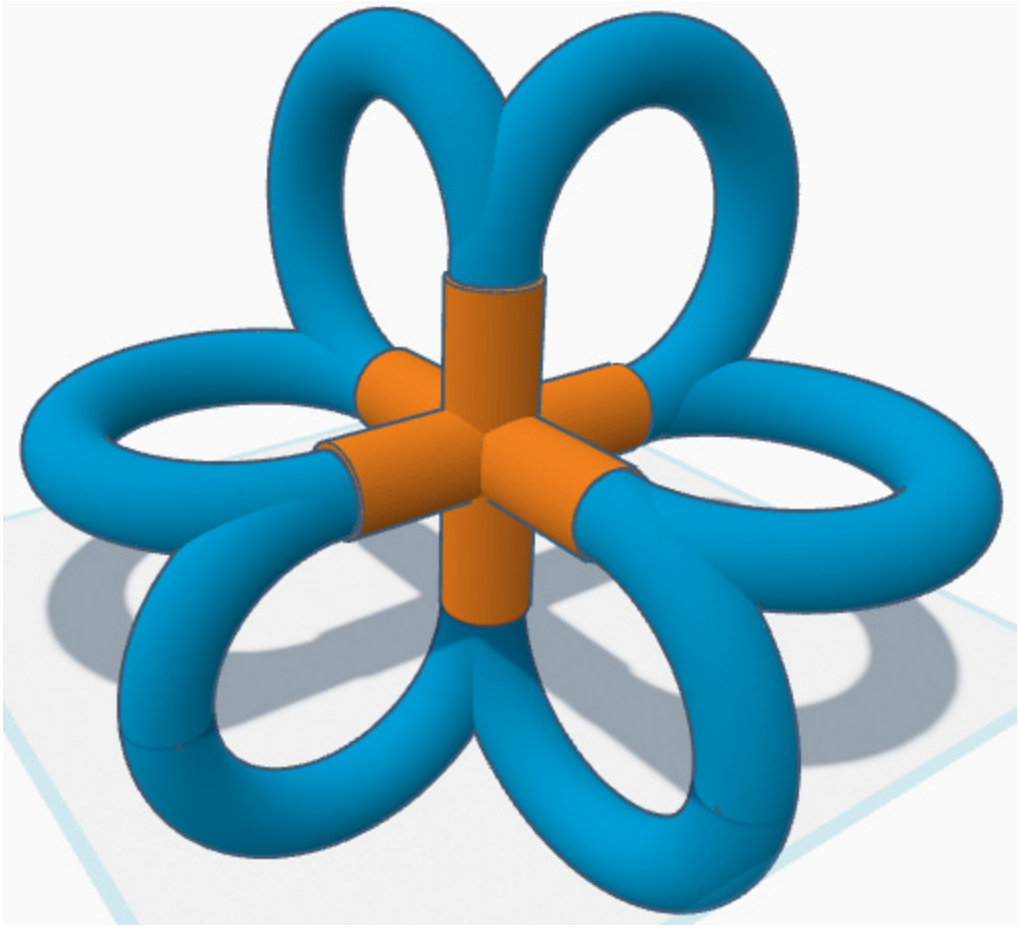


This 3D print-schematic was formed at Tinker CAD. It's less than perfect. It's merely intended to convey the idea without necessarily being the exact design from which you might form your final (finished) product (a winding-form for the core material).

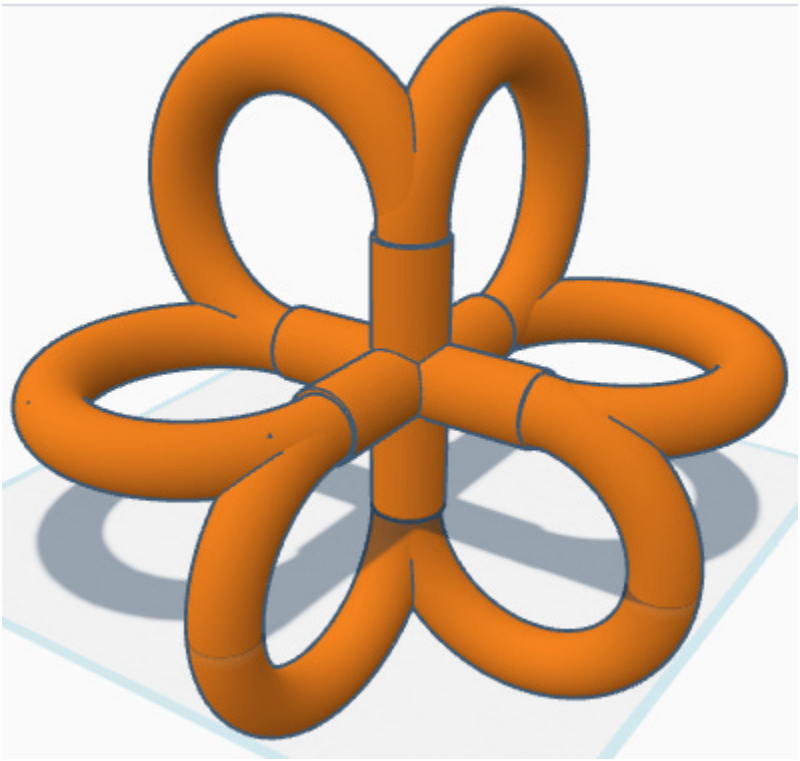
It is a congruence of three figure-eights intersecting at a common center (the center point of a 3D graph-grid). Likewise, the plane of each figure-eight is within two of the three dimensions of 3D space.

There are two versions of this coil-core.

One version is a three-dimensional cross with separate extensions (STL file):

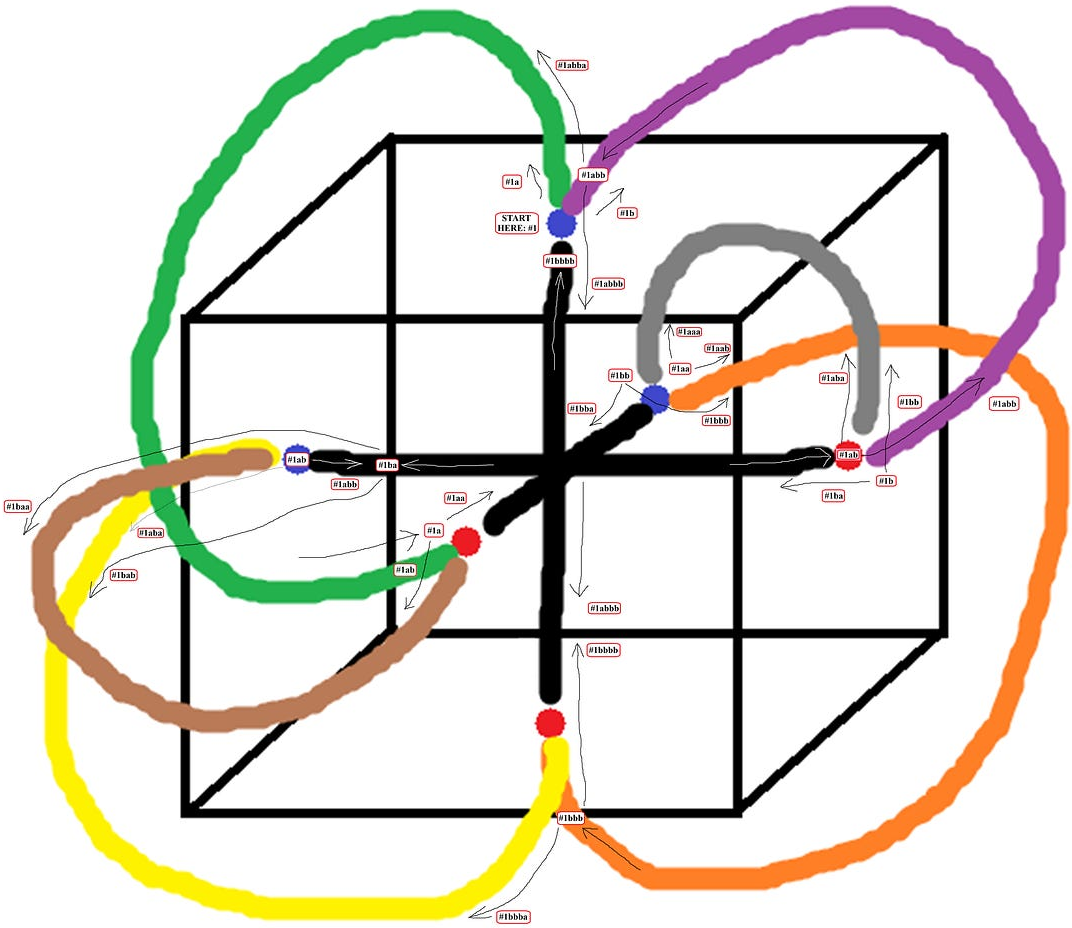


The second version (STL file) has unified these separate extensions by fusing them into the cross resulting in three imperfect infinity symbols:



For both versions, each imperfect infinity symbol is within its own plane of three-dimensional space.

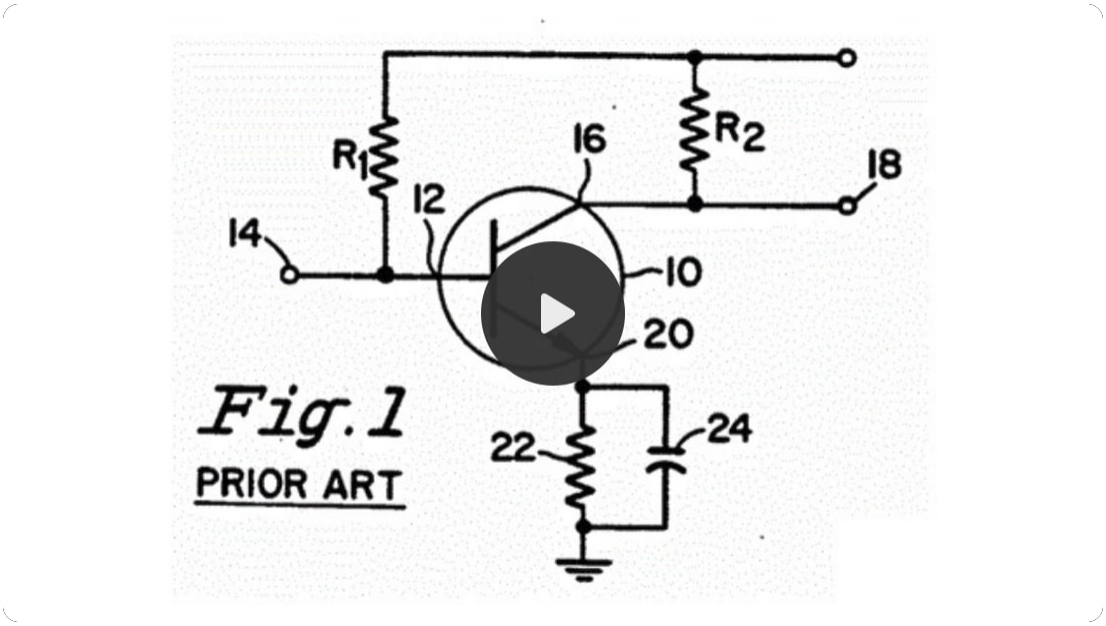
This triadic composition of figure-eights with a common center ensures that all magnetic flux contradicts itself by flowing against itself to spawn a negative mutual coupling among the three orthogonal coils. Each coil is wound on own figure-eight.



For more information, search for: site:vinyasi.substack.com William Jay Fogal Charged Barrier Transistor

---

This post has been continued from several prior posts, the last four of which are the following:



William Jay Fogal's Charged Barrier Transistor meets up with a portion of one of Don Smith's Resonance Energy Methods!

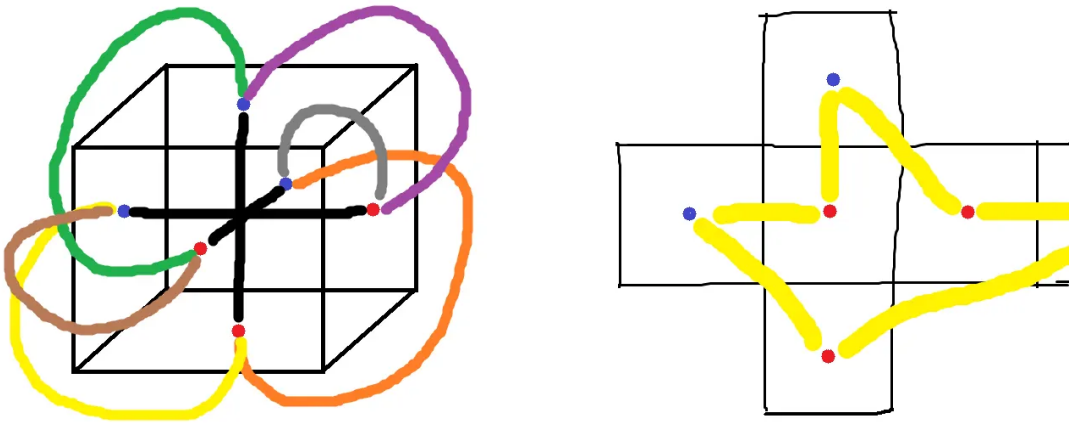
VINYASI · MAY 23

I took the previous rendition of my derivation of William Jay Fogal’s Charged Barrier Transistor, and I added a subcircuit which specializes in converting the oscillating output into …

Read full story

The Magnetic Coupling among the Three Coils of my Rendition of William Jay Fogal's Charged Barrier Transistor.

VINYASI · MAY 24

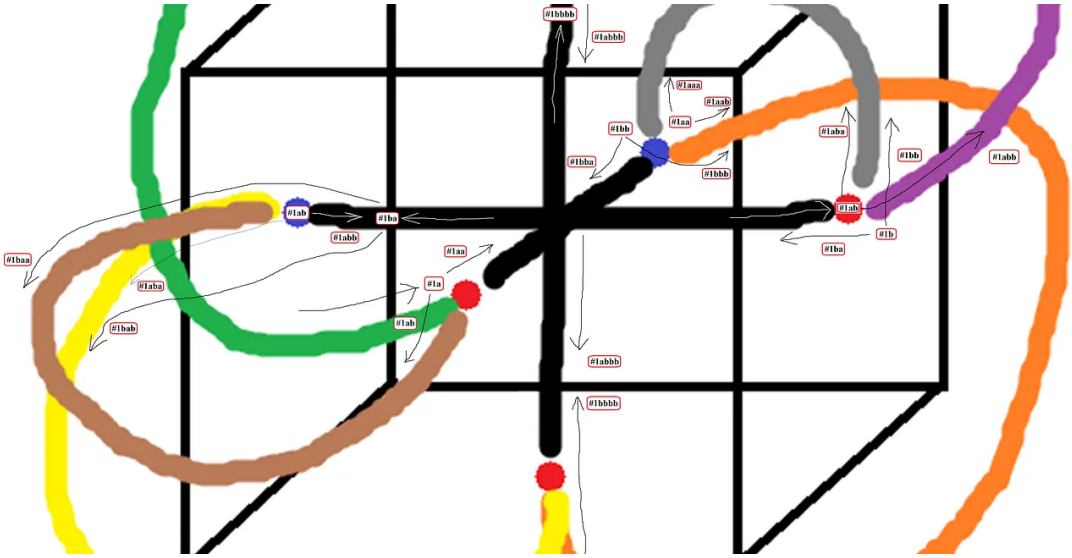


I have an idea how to coordinate the negation of magnetic coupling among three coils. I hope this drawing helps you visualize what I have in mind.

Read full story

The Magnetic Coupling among the Three Coils of my Rendition of William Jay Fogal's Charged Barrier Transistor.

VINYASI · MAY 24



This post is a continuation of the prior post:

Read full story