```
SPEC ID       : QLA-BP-000000001604                                  RESONANCE     : 9.5 / 10.0 CR
ATTRIBUTED TO : Cabel Sasser                                            CALIBRATED    : 2026-11-06
NODE ENDPOINT : https://qualia-teal.vercel.app/idea/b0000000-0000-0000-0000-000000001604
```

# Eddy-Current Crank Detent Engine

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**[ THE MECHANICS: ]**

A pocket-scale mechanical rotary hand-crank integrated with a programmable micro-stator eddy-current brake and a high-resolution magnetic Hall sensor. By modulating PWM current across the stator coils in real time, the handheld dynamically alters the physical torque resistance of the crank -- simulating heavy iron gear ratchets, elastic spring tension, fluid viscosity, or sudden mechanical lockups in the player's fingers.

**[ UTILITARIAN VALUE: ]**

Upgrades passive rotational input into a bi-directional physical force-feedback actuator without fragile plastic gears or motor brush wear.

**[ TARGET ECOSYSTEM: ]**

Tactile indie handheld consoles, pocket hardware inventors, and physical interactive fiction studios.

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**INTERACTIVE 3D TERMINAL & SOVEREIGN CRAFT ECOSYSTEM LINKS**

1. Inspect Live 3D Simulation, Crash-Test BOM & 1-Click Claim/Delist:
   https://qualia-teal.vercel.app/idea/b0000000-0000-0000-0000-000000001604
2. Commission Verified Modular Sound & 3D Artisans (USD Bounties on Roily):
   https://roily-app.vercel.app/?tab=feed
3. Source Direct B2B Manufacturing & Code Execution (0% Tax on DealOff):
   https://deal-off.vercel.app/?from=qualia&title=Eddy-Current%20Crank%20Detent%20Engine&bounty=250
4. Hardware Unit-Economics Essays & Original Books by C.J. Night:
   https://cjnight.substack.com