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SPEC ID       : QLA-BP-000000003401                                  RESONANCE     : 9.7 / 10.0 CR
ATTRIBUTED TO : Václav Pelouek, Ondej Merta & Bastl Instruments Guil     CALIBRATED    : 2026-11-10
NODE ENDPOINT : https://qualia-teal.vercel.app/idea/b0000000-0000-0000-0000-000000003401
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Kastle Lattice // Non-Linear Stochastics & Kinetic Feedback Matrix

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[THE MECHANICS:]

A pocket-sized battery-powered analog chaos synthesizer and Eurorack satellite marrying Bastl iconic micro-wire pin matrix with non-linear feedback diodes and dual asynchronous CMOS shift registers. Rather than sterile pseudo-random digital noise, it feeds two cross-coupled shift registers into analog diode-ladder clippers that dynamically distort and destabilize depending on internal battery voltage sag and capacitive finger skin resistance. Features a discrete stepped R-2R ladder DAC producing stepped microtonal voltages, chaotic square wave sub-oscillators, and an autonomous pulse-burst exciter designed to clock external semi-modular instruments without an external power supply.

[UTILITARIAN VALUE:]

Unpredictable biomorphic analog feedback, chaotic CMOS shift-register stochastics, and tactile pin-matrix interconnectivity generating evolving organic rhythms and raw acoustic transients with zero digital latency.

[TARGET ECOSYSTEM:]

Bastl Instruments Kastle ecosystem (Kastle 1.5, Kastle Drum, Kastle ARP), Softpop SP2, tactile pin-patching systems, live improvisational modular performance.

Roily USD Craft Bounties:
Commission or challenge independent sound designers for verified USD bounties at https://roily-app.vercel.app

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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/b0000000-0000-0000-0000-000000003401
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=Kastle%20Lattice%20%2F%2F%20Non-Linear%20Stochastics%20%26%20Kinetic%20F
4. Hardware Unit-Economics Essays & Original Books by C.J. Night:
   https://cjnight.substack.com